

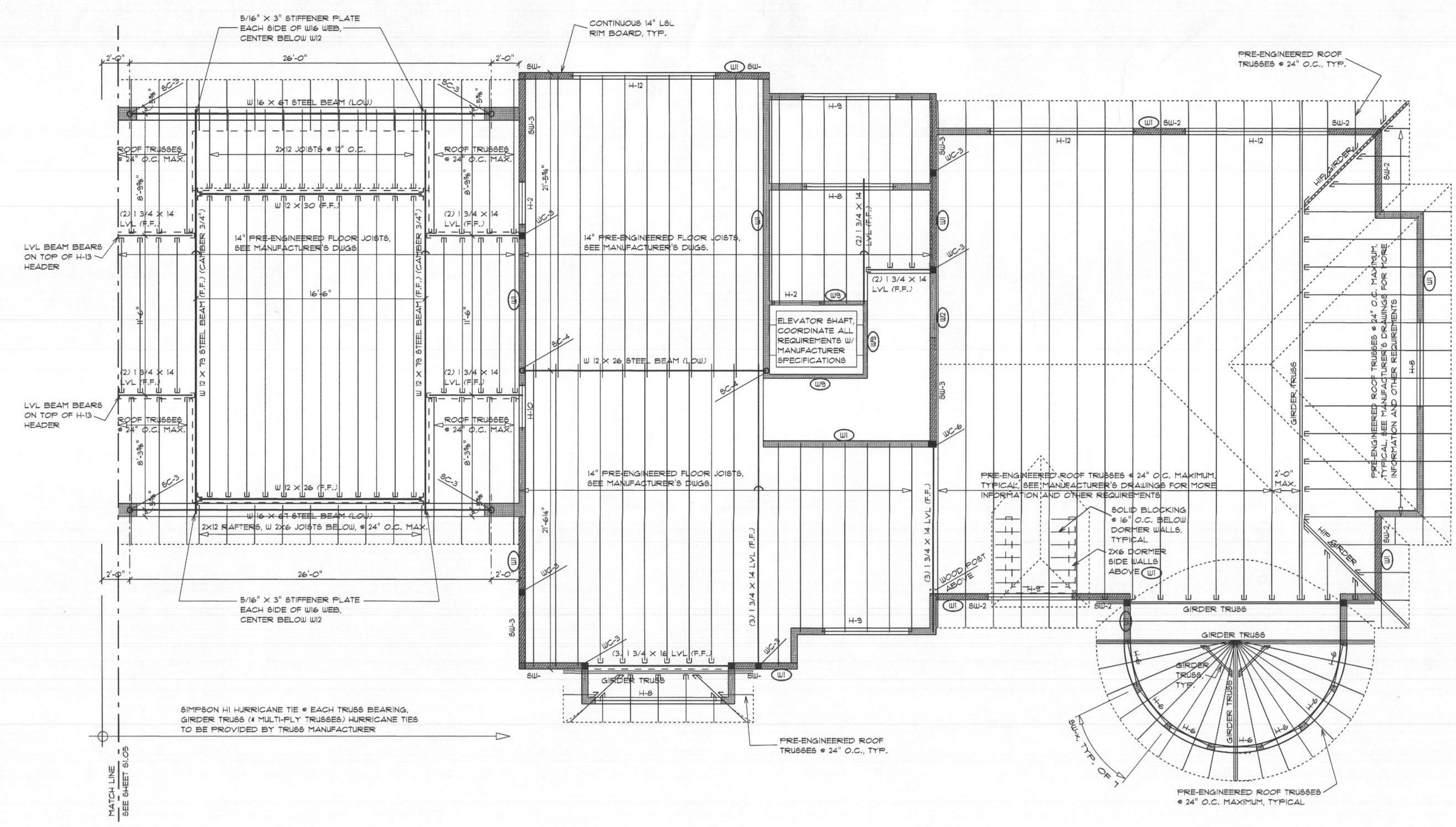
PROFESSIONAL CERTIFICATION
 I certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the law of the State of Maryland, License Number R000461, Expiration Date: 9/02/23



PROPOSED RESIDENCE

KAHN RESIDENCE
 3678 Folly Quarter Road,
 Ellicott City, Maryland 21042

ARCHITECT
 Jonathan Rivera AIA, NCARB
 Howard County, Maryland
 443.226.5145
 jrivera@jonathandriviera.com

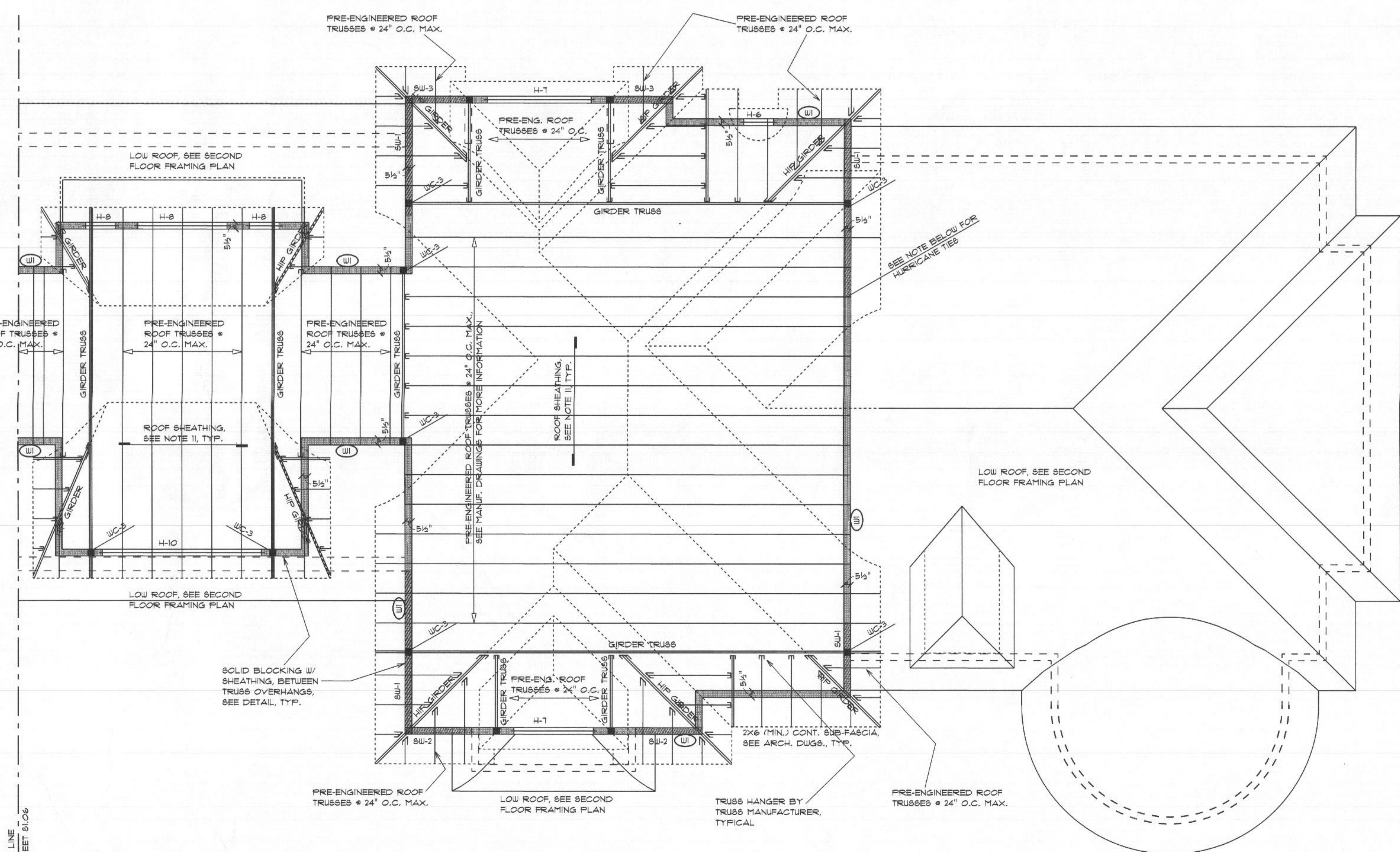


SECOND FLOOR / LOW ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"

SECOND FLOOR / ROOF FRAMING NOTES:

- COORDINATE ALL PRE-ENGINEERED FRAMING W/ ERECTION PLANS FROM MANUFACTURER.
- PROVIDE JACK STUDS AT ALL OPENINGS PER HEADER SCHEDULE UNLESS NOTED OTHERWISE ON PLAN.
- 2" X 10'S EACH SIDE OF WEB, BOLTED TO BEAM W/ 1/2" DIAMETER BOLTS @ 24" O.C. STAGGERED. WHERE BEARING WALLS SUPPORT JOISTS FROM BOTH SIDES, OR CONTIGUOUS JOISTS, PROVIDE SOLID RIM BOARD BLOCKING BETWEEN JOISTS.
- CONNECT LEDGER BOARD TO EACH STUD W/ (2) 3/4" DIA. X 3" L. LEDGERLOCKS.
- |—|— INDICATES MOMENT CONNECTION, SEE DETAIL.
- SPACINGS FOR ALL JOISTS SHALL BE 16" O.C. MAX., INCLUDING SPACE FROM ADJACENT BEAM.
- SUBFLOOR SHALL BE INSTALLED WITH LONG DIRECTION PERPENDICULAR TO SUPPORTS, AND SHALL CONSIST OF HUBER 3/4" TONGUE & GROOVE ADVANTEK STRUCTURAL I SUBFLOOR. ALL SUBFLOOR SHALL BE ATTACHED TO SUPPORTS WITH 10d NAILS @ 8" O.C. UNLESS NOTED OTHERWISE ON PLAN.
- COORDINATE ROOF FRAMING PLAN W/ ROOF TRUSS MANUFACTURER'S TRUSS ERECTION & TRUSS DETAIL PLANS. FRAMING MAY VARY FROM THAT SHOWN.
- HIP GIRDERS SHALL BE DESIGNED TO CANTILEVER AS SHOWN, SUBJECTED TO ALL LOAD COMBINATIONS. TRUSS MANUFACTURER SHALL SHOW NECESSARY STRAPS OR ADDITIONAL FRAMING REQUIRED ON TRUSS ERECTION DRAWING.
- SPACINGS FOR ALL TRUSSES AND RAFTERS SHALL BE 24" O.C. MAX. UNLESS NOTED OTHERWISE.
- PROVIDE OVERBUILD TRUSSES (OR FRAMING AS REQUIRED) WHERE REQUIRED TO FORM ROOF AS SHOWN ON ARCHITECTURAL DRAWINGS.
- 7-7- INDICATES JOIST, BEAM, TRUSS OR RAFTER HANGERS. HANGERS FOR TRUSSES & LVL'S SHALL BE PROVIDED BY TRUSS OR FLOOR SYSTEM MANUFACTURER.
- BRACE ROOF TRUSSES PER MANUFACTURER'S ERECTION PLAN. BRACE AS REQUIRED FOR STABILITY DURING ERECTION.
- SHOWN THIS [HATCH] INDICATES WOOD-FRAMED SHEAR WALL BELOW. SEE SCHEDULE.
- H.W. INDICATES WINDOW & DOOR HEADERS. SEE SCHEDULE THIS SHEET.
- W4 X 13C X INDICATES WOOD & STEEL COLUMN, RESPECTIVELY. SEE COLUMN SCHEDULE.
- INDICATES WALL STUD SIZE AND MAXIMUM SPACING. SEE WALL STUD SCHEDULE.
- WALL SHEATHING FOR EXTERIOR WALLS AND WALLS NOTED AS SHEAR WALLS SHALL CONSIST OF HUBER 15/32 STRUCTURAL I SHEATHING. ALL WALL SHEATHING SHALL BE ATTACHED TO SUPPORTS WITH 8d NAILS @ 6" O.C. UNLESS NOTED OTHERWISE ON SHEAR WALL SCHEDULE.
- ROOF SHEATHING SHALL BE INSTALLED OVER ENTIRE ROOF WITH LONG DIRECTION PERPENDICULAR TO SUPPORTS, AND SHALL CONSIST OF HUBER ZIP SYSTEM, 1/2" TONGUE & GROOVE STRUCTURAL I SHEATHING. ALL ROOF SHEATHING SHALL BE ATTACHED TO SUPPORTS WITH 10d NAILS @ 8" O.C. UNLESS NOTED OTHERWISE ON PLAN.
- WHERE "PORTAL FRAME" IS NOTED, STRUCTURAL STEEL PORTAL FRAME (MOMENT FRAME) PER DETAIL.
- BEARING WALLS SHALL HAVE LSL FLATES WHERE LSL STUDS ARE USED. SEE WALL STUD SCHEDULE.



ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"

SHEAR WALL SCHEDULE

MARK	MINIMUM LENGTH	POST EACH END	HOLDDOWN EACH END	HOLDDOWN ANCHOR BOLT	SHEATHING NAILING PATTERN	BLOCKING AT JOINTS	CONNECTION AT TOP
SW-1	SEE PLAN	(2) STUDS	SIMPSON #HD3B	SIMPSON #SBTB16	8d NAILS @ 6" O.C.	NO	
SW-2	SEE PLAN	(3) STUDS	SIMPSON #HD3B	SIMPSON #SBTB20	8d NAILS @ 4" O.C.	NO	
SW-2X	SEE PLAN	(4) STUDS	SIMPSON #HD3B	SIMPSON #SBTB24 / SIMPSON ATB-88C TO-STEEL	8d NAILS @ 4" O.C.	YES	
SW-3	SEE PLAN	(3) STUDS	SIMPSON #HD3B	SIMPSON #SBTB24	8d NAILS @ 3" O.C.	NO	HURRICANE TIES & ROOF FRAMING AS NOTED ON PLANS. CONNECTION @ TOP OF WALL, BELOW FLOOR FRAMING AS NOTED ON SHEAR WALL DETAILS.
SW-3X	SEE PLAN	(4) STUDS	SIMPSON #HD3B	SIMPSON #SBTB24 / SIMPSON ATB-88C TO-STEEL	8d NAILS @ 3" O.C.	YES	
SW-4	SEE PLAN	(4) STUDS	SIMPSON #HD3B	SIMPSON #SBTB34	8d NAILS @ 2" O.C.	NO	ANCHOR BOLTS & SOLID BLOCKING BETWEEN LOWER SHEAR WALL & UPPER SHEAR WALL.

ISSUE DATE
 1/19/22 PERMIT SET

SCALE: as noted

SI.07

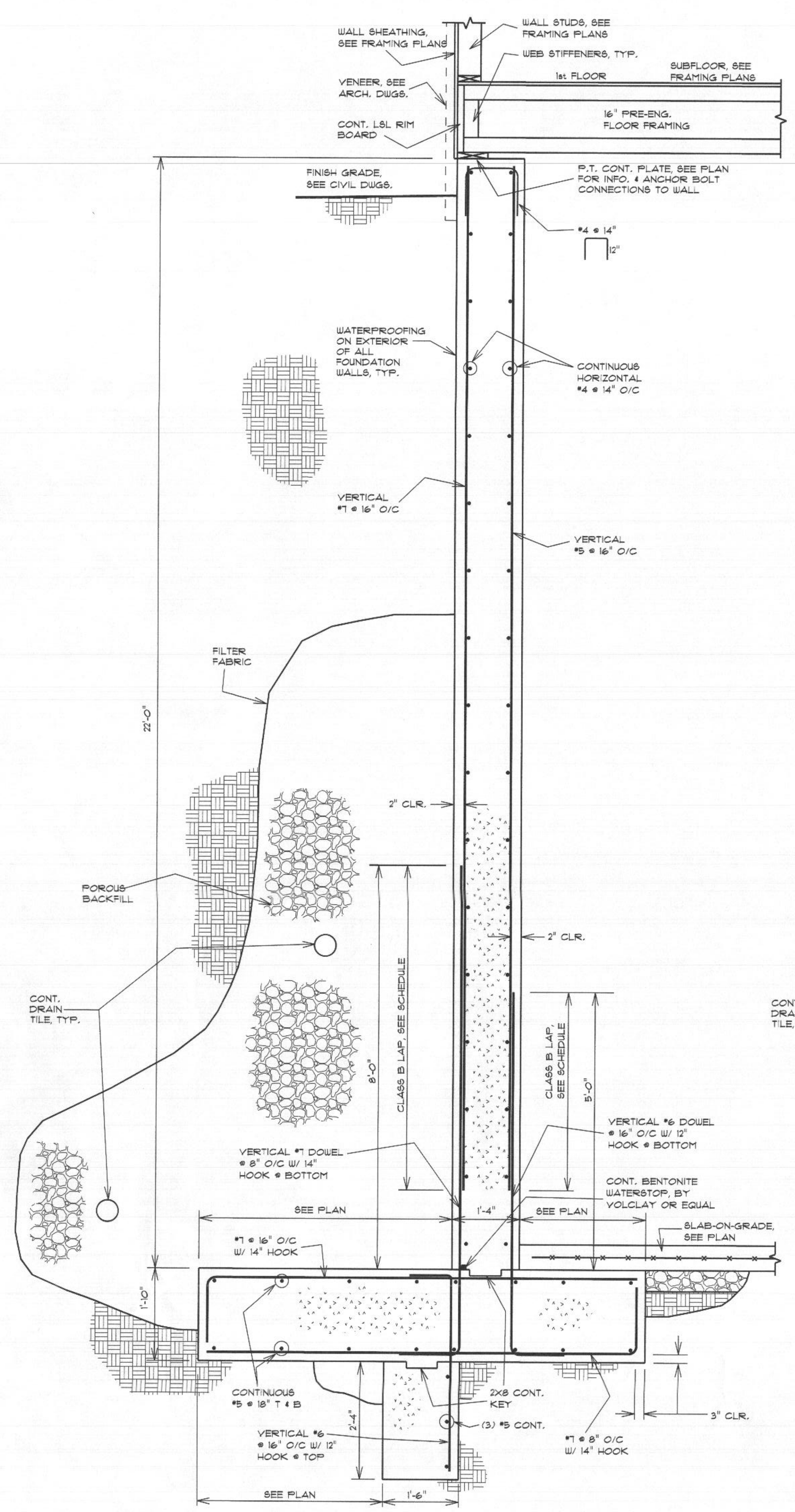
PROFESSIONAL CERTIFICATION
 I certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License Number: 7202461
 Expiration Date: 9/02/23



PROPOSED RESIDENCE

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 Ellicott City, Maryland 21042

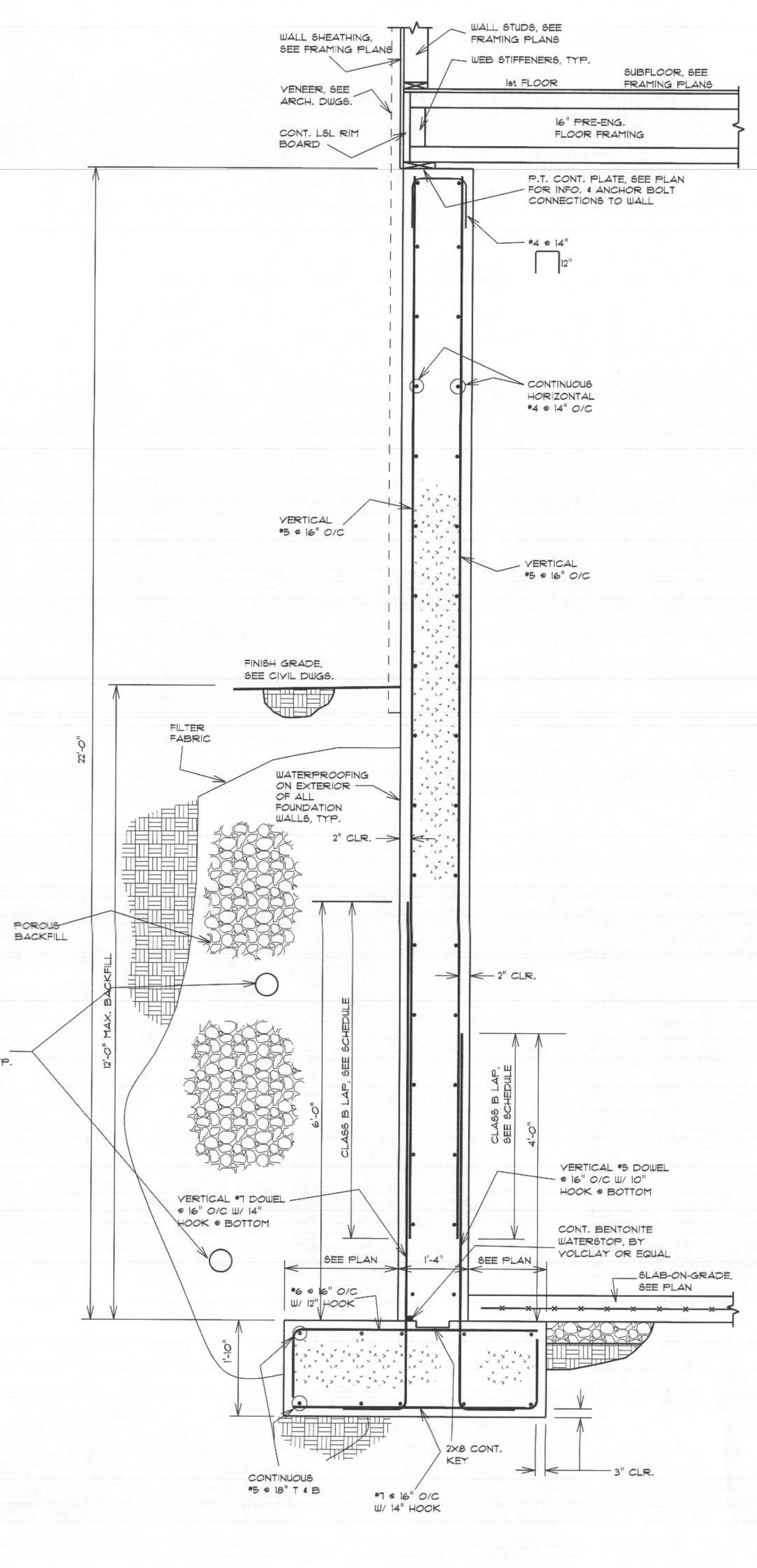
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(4,000 PSF ALLOWABLE SOIL PRESSURE REQUIRED)

FOUNDATION WALL & FOOTING @ COURTYARD

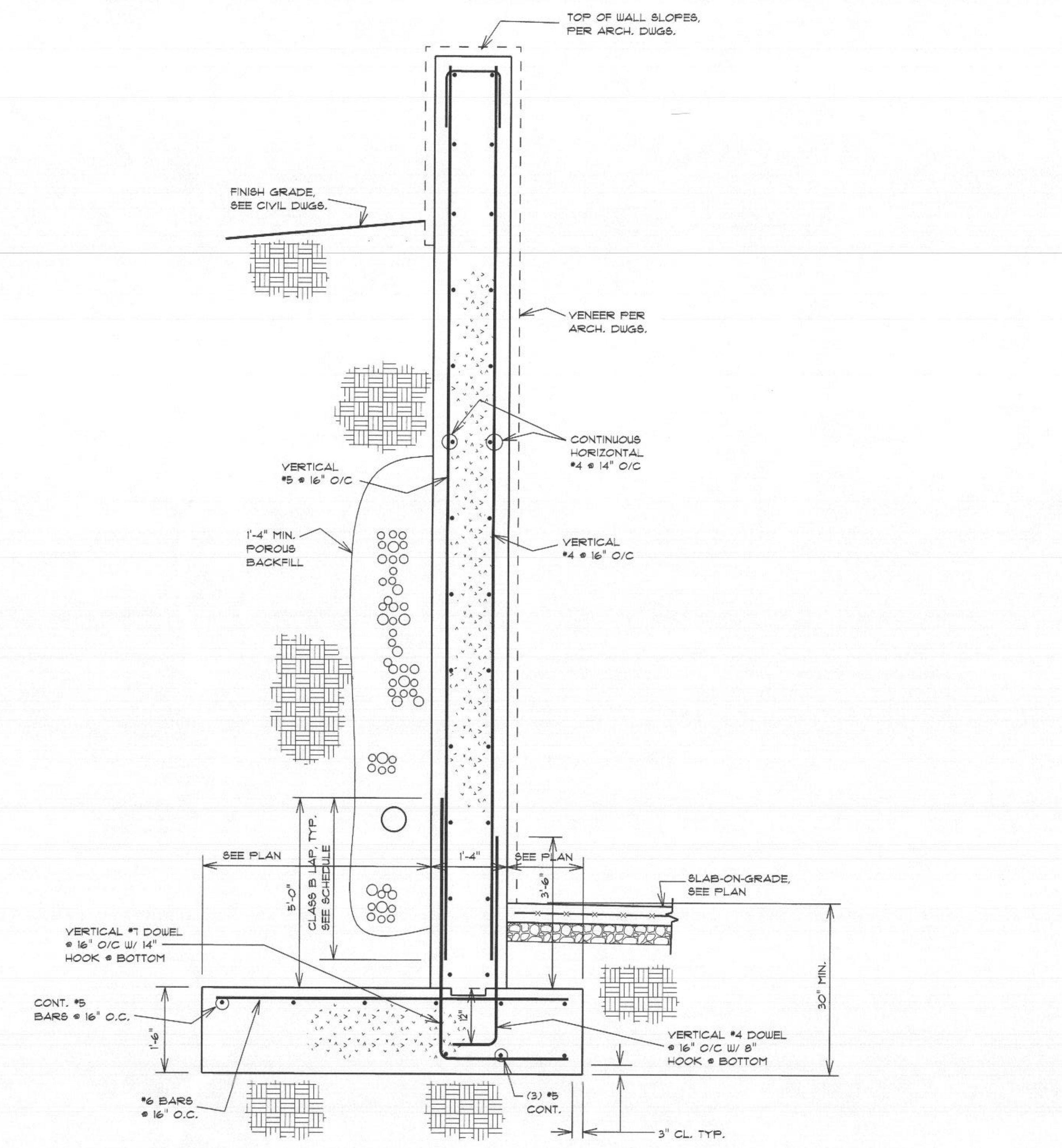
1 SECTION
 SCALE: 3/4" = 1'-0"



(4,000 PSF ALLOWABLE SOIL PRESSURE REQUIRED)

FOUNDATION WALL & FOOTING @ COURT (W/ 12' MAX. BACKFILL)

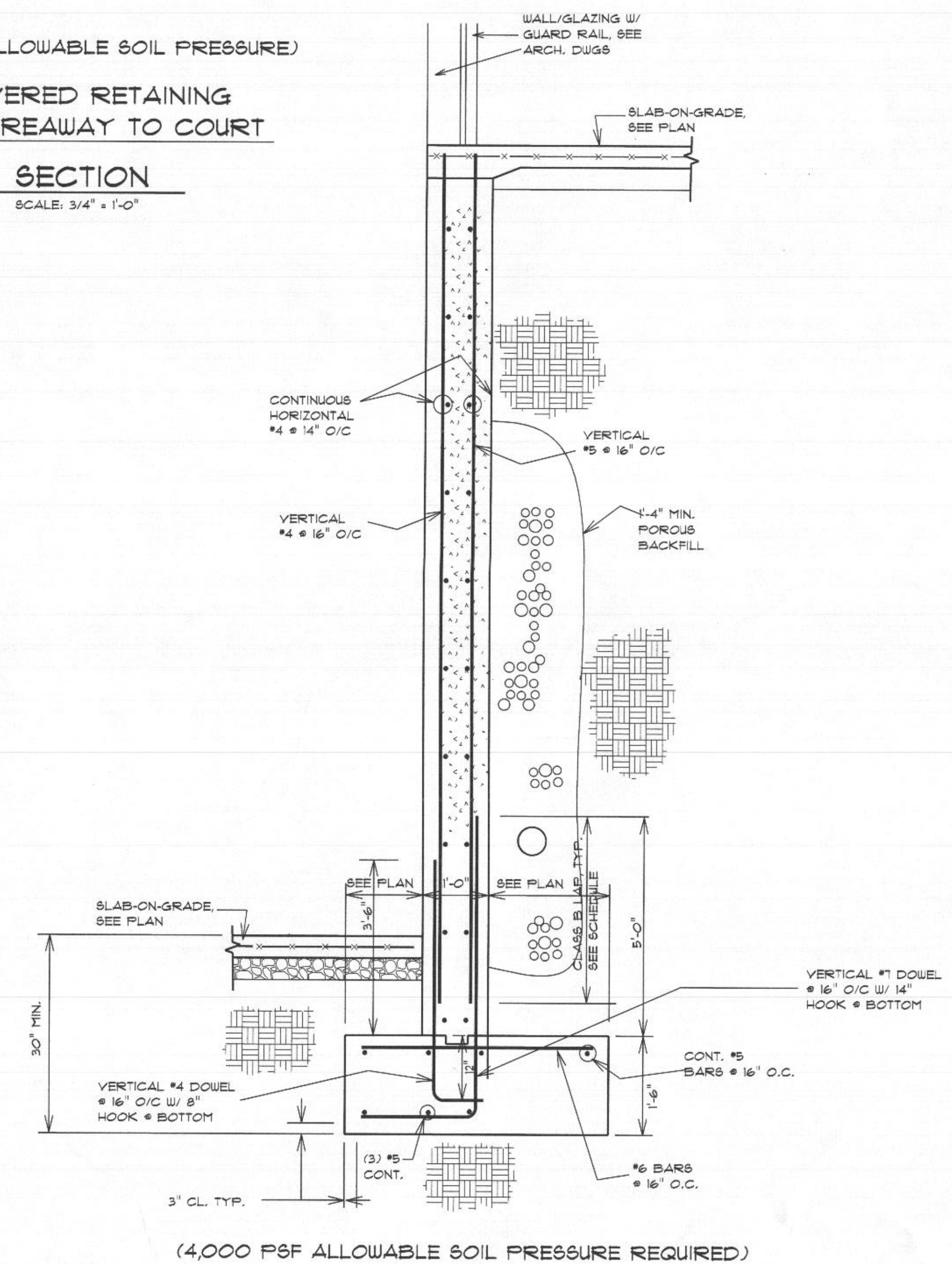
2 SECTION
 SCALE: 3/4" = 1'-0"



(2,000 PSF ALLOWABLE SOIL PRESSURE)

CANTILEVERED RETAINING WALL @ ATRIUM TO COURT

3 SECTION
 SCALE: 3/4" = 1'-0"



(4,000 PSF ALLOWABLE SOIL PRESSURE REQUIRED)

RETAINING WALL @ LOW TO HIGH BASEMENT

4 SECTION
 SCALE: 3/4" = 1'-0"

ISSUE DATE

1/19/22	PERMIT SET

SCALE: as noted

S2.01



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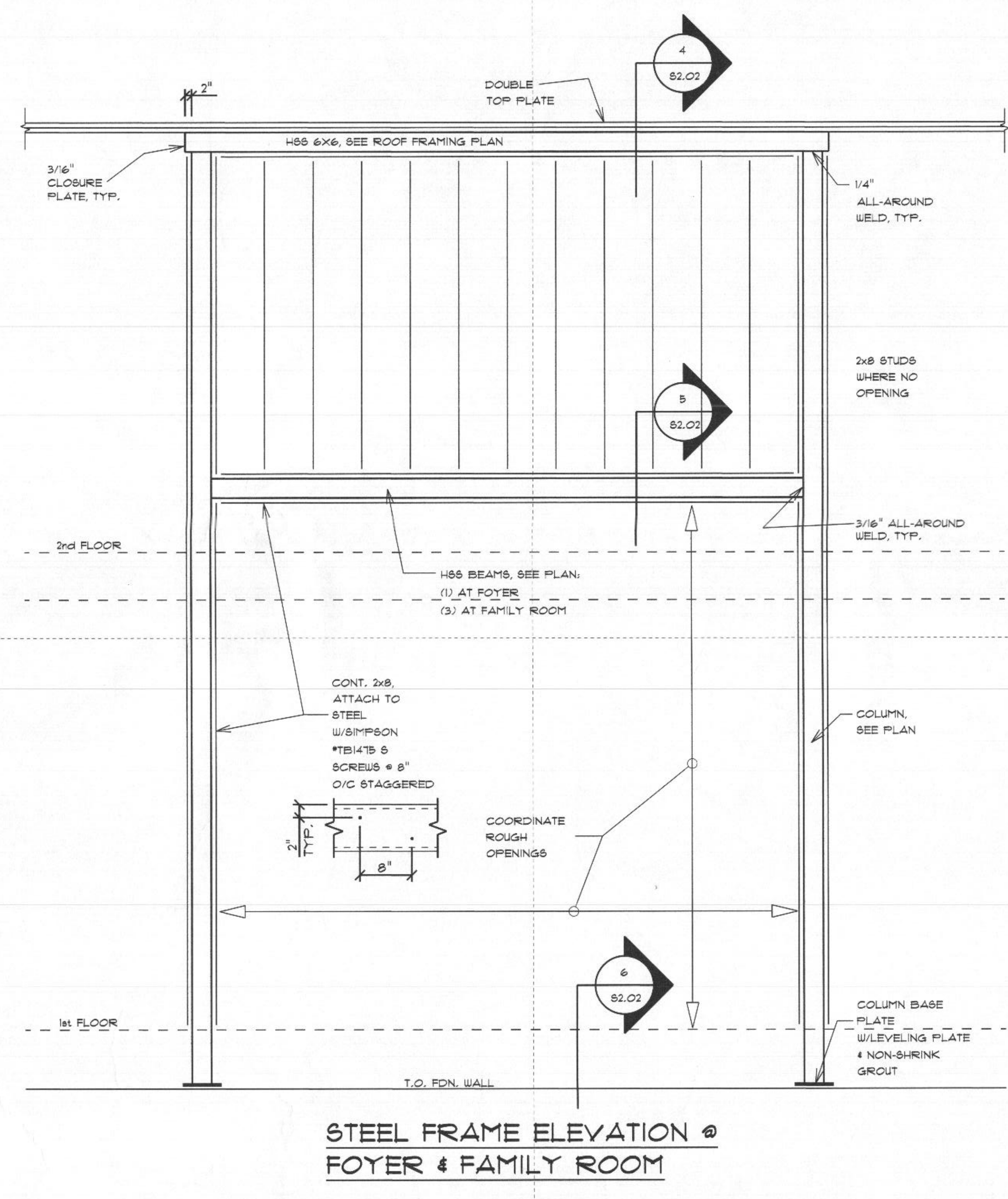
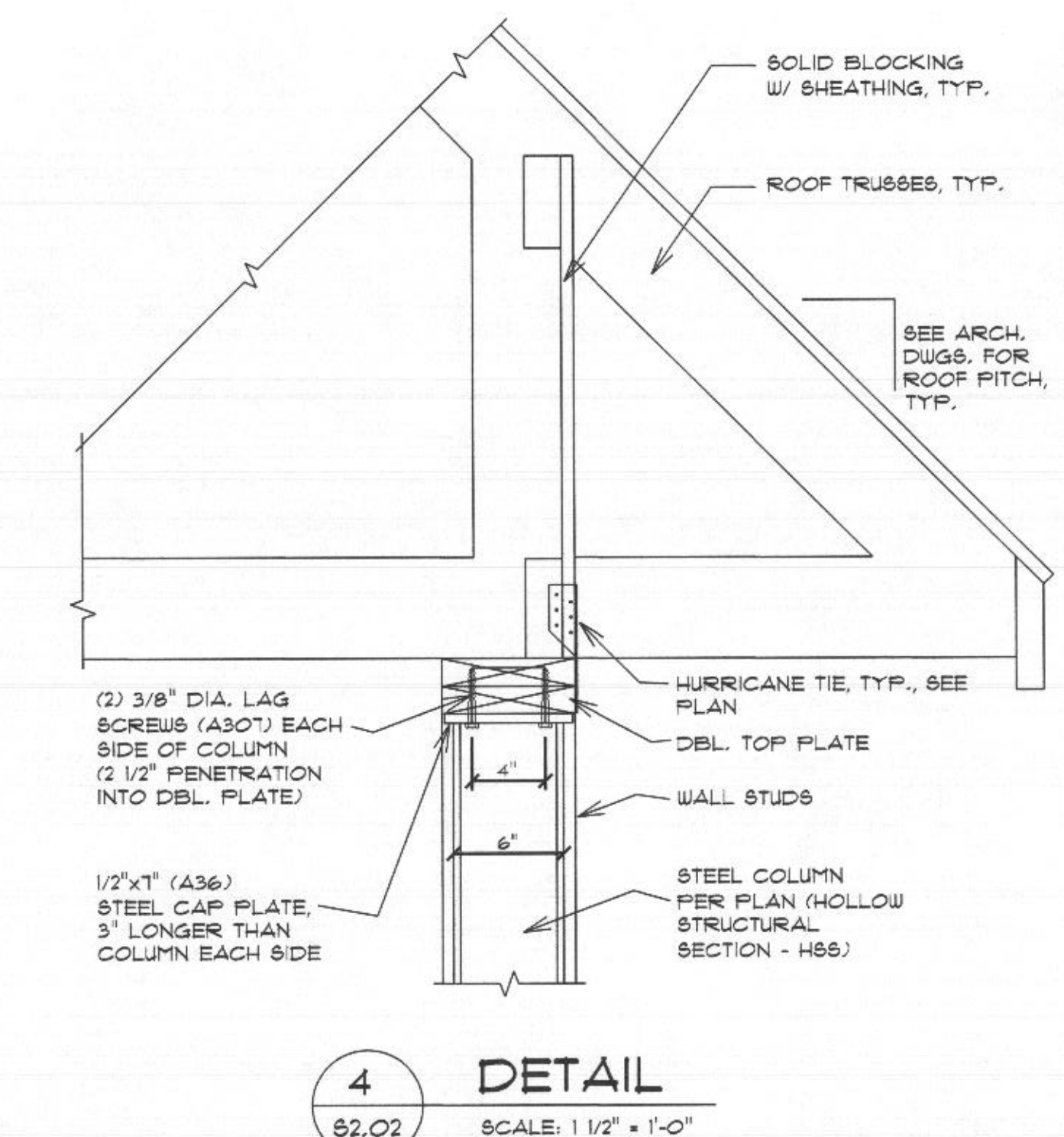
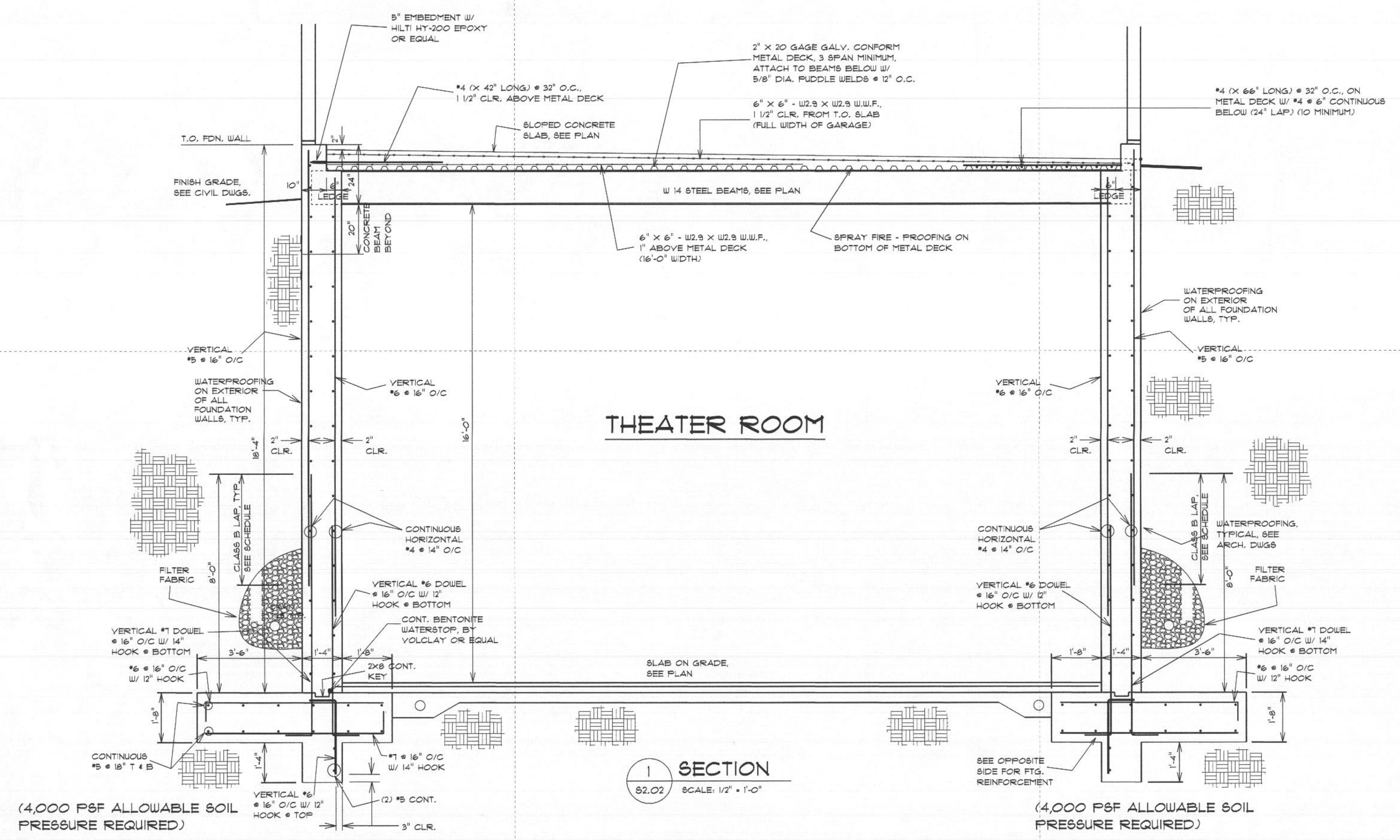
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ISSUE DATE

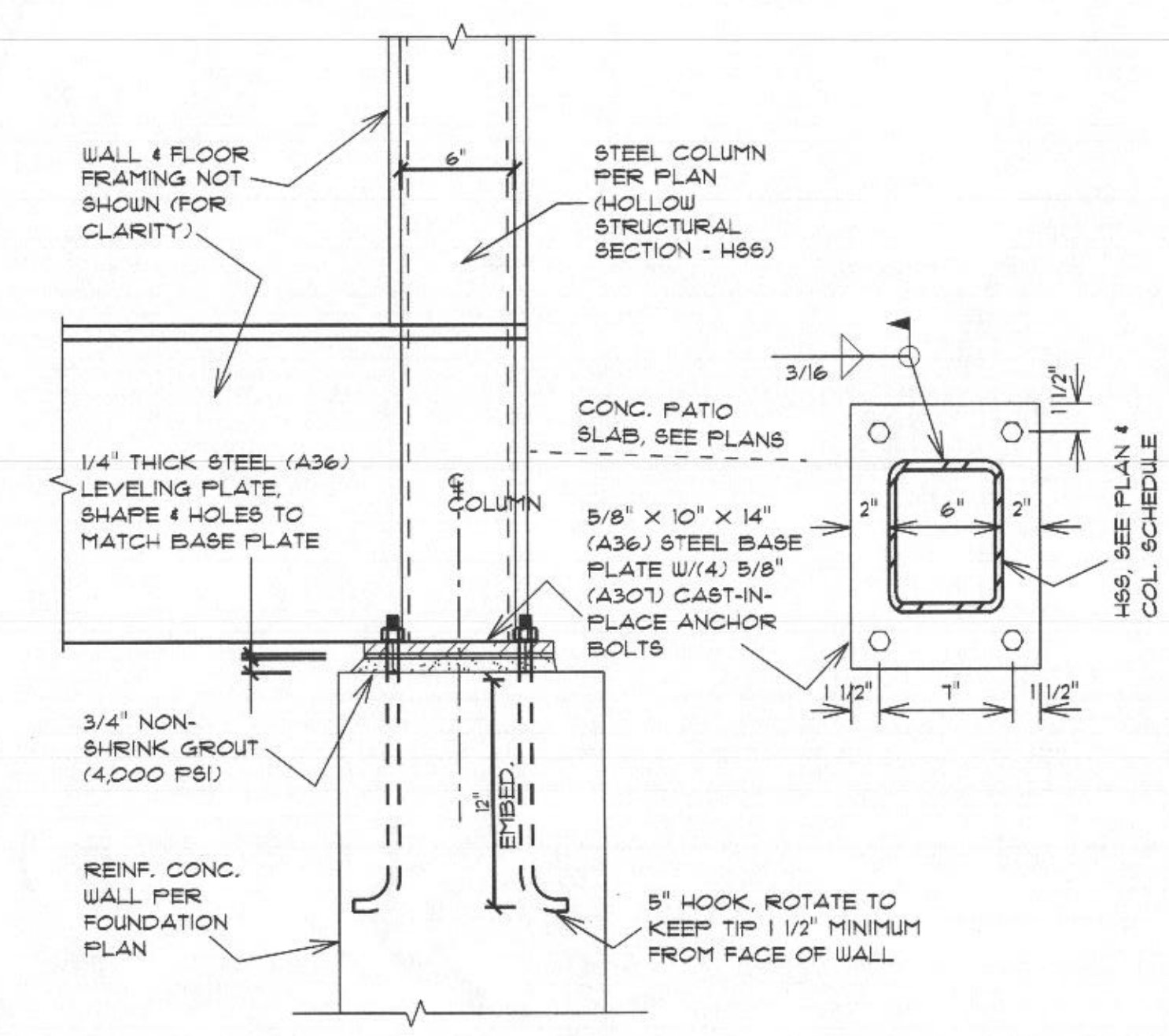
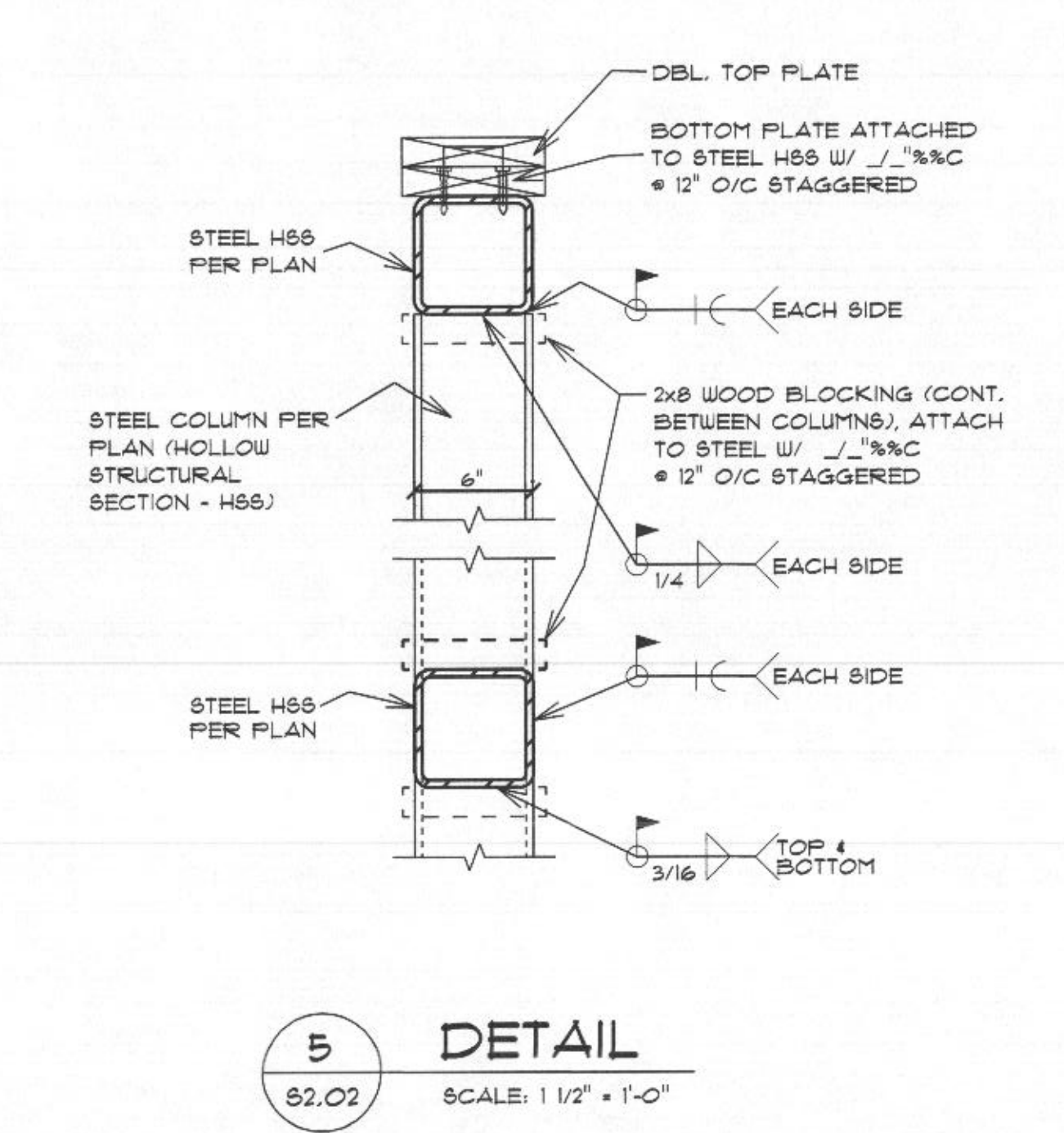
▲ 1/19/22	PERMIT SET
▲ 3/14/22	2/22 MISC. PER ARCH.

SCALE: as noted

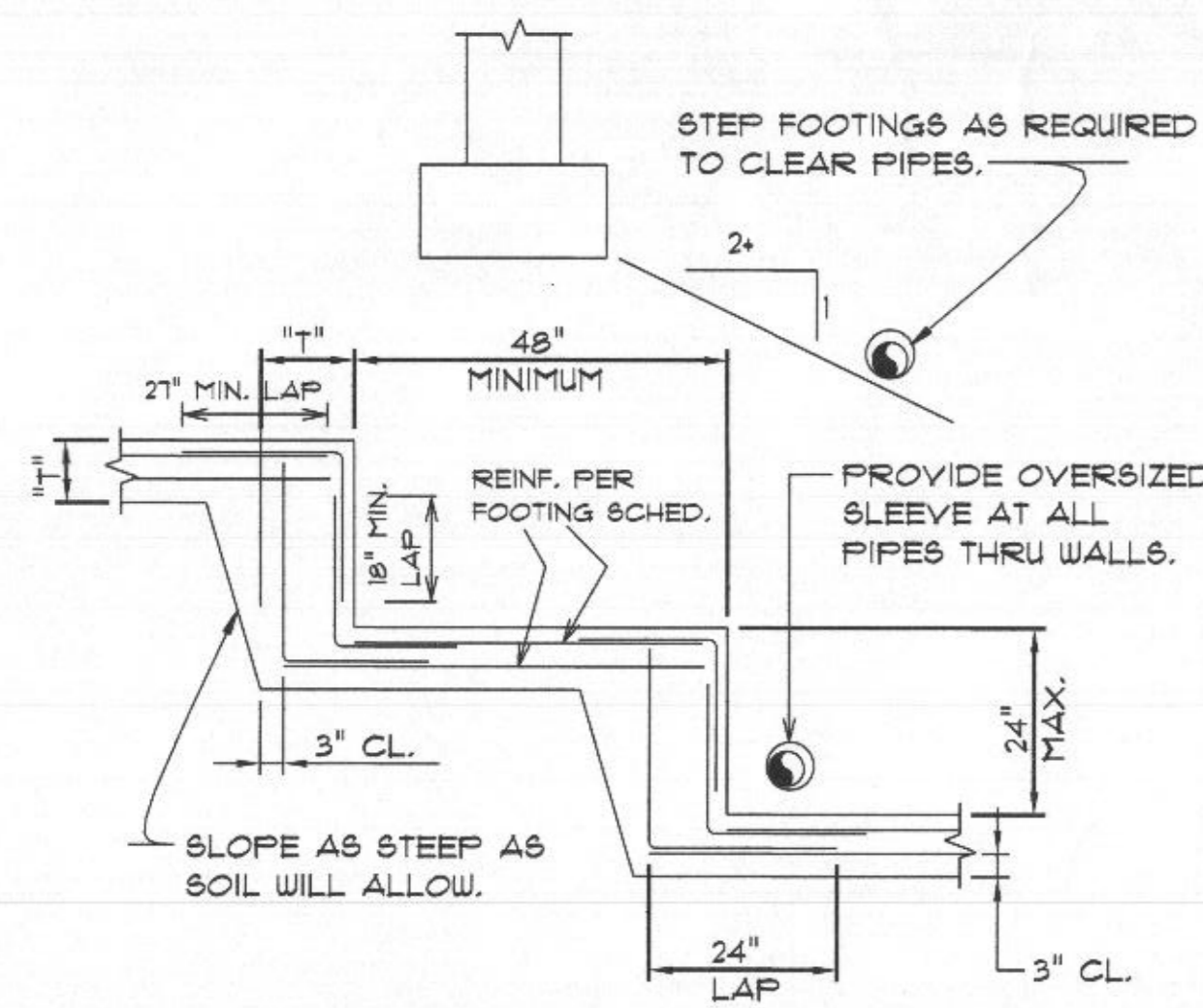
S2.02



3 DETAIL
 SCALE: 3/8" = 1'-0"

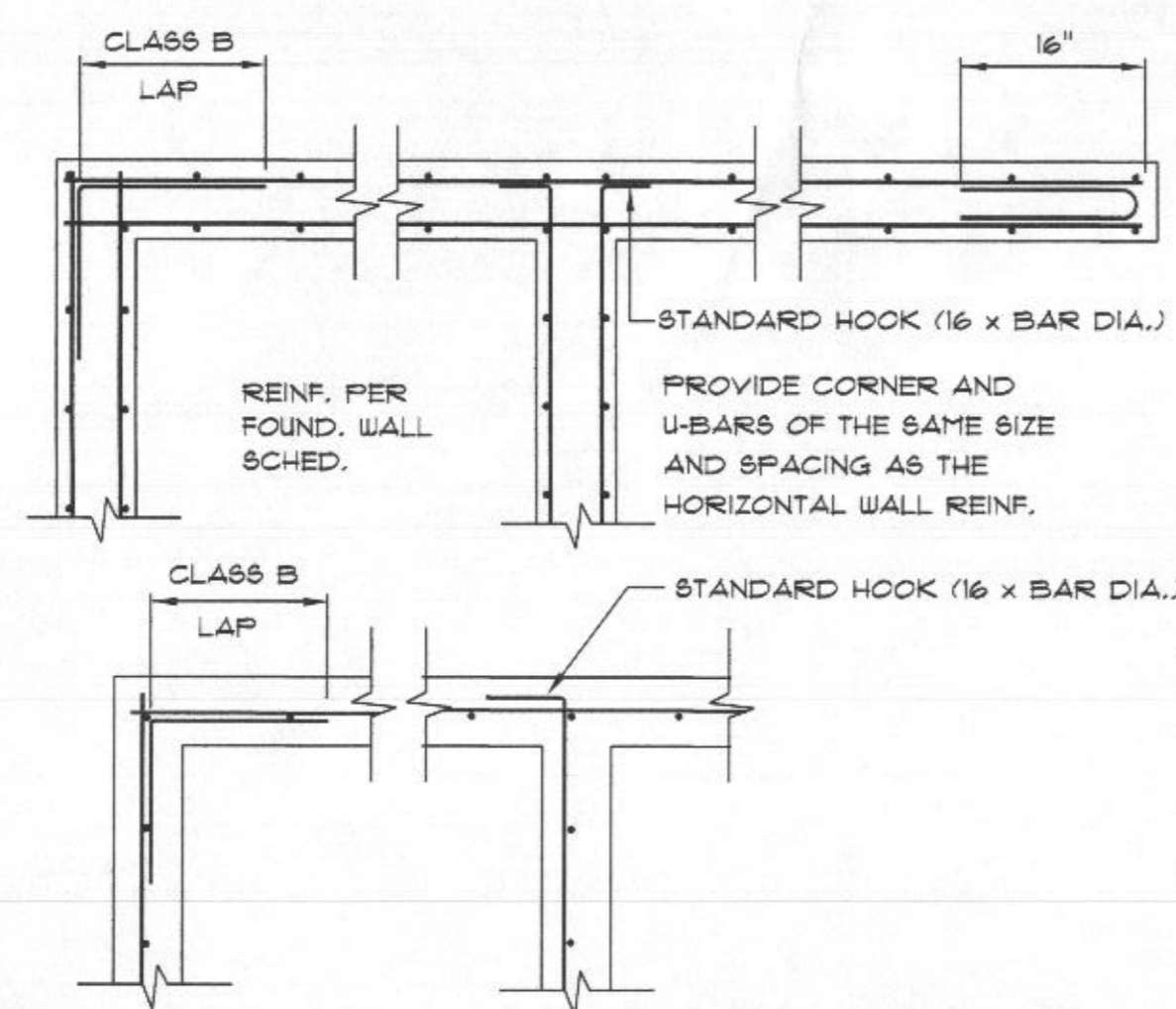


6 DETAIL
 SCALE: 1/2" = 1'-0"



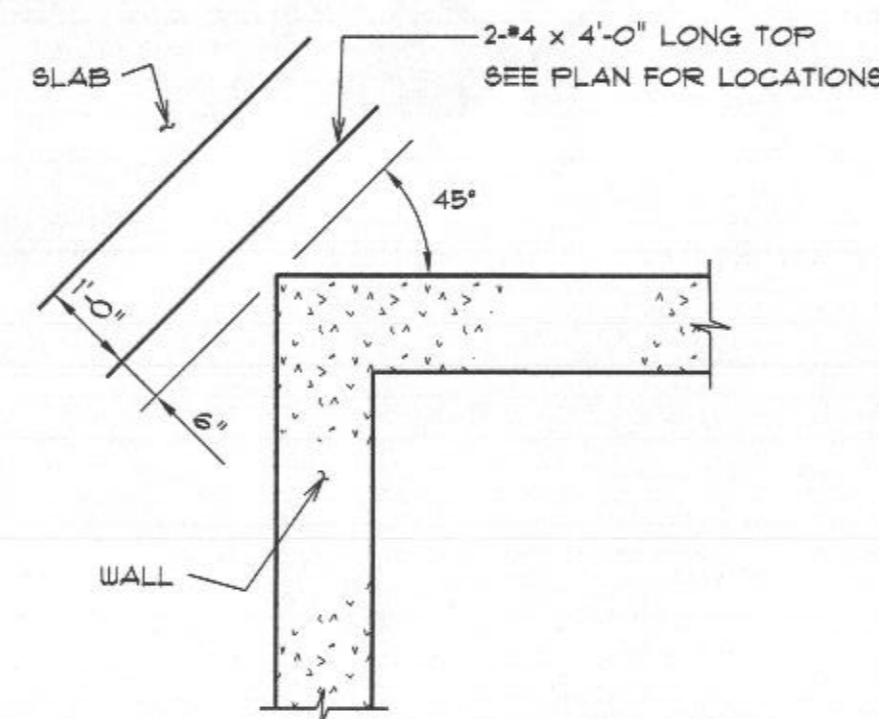
TYPICAL STEPPED FOOTING

1 DETAIL
83.01 NOT TO SCALE



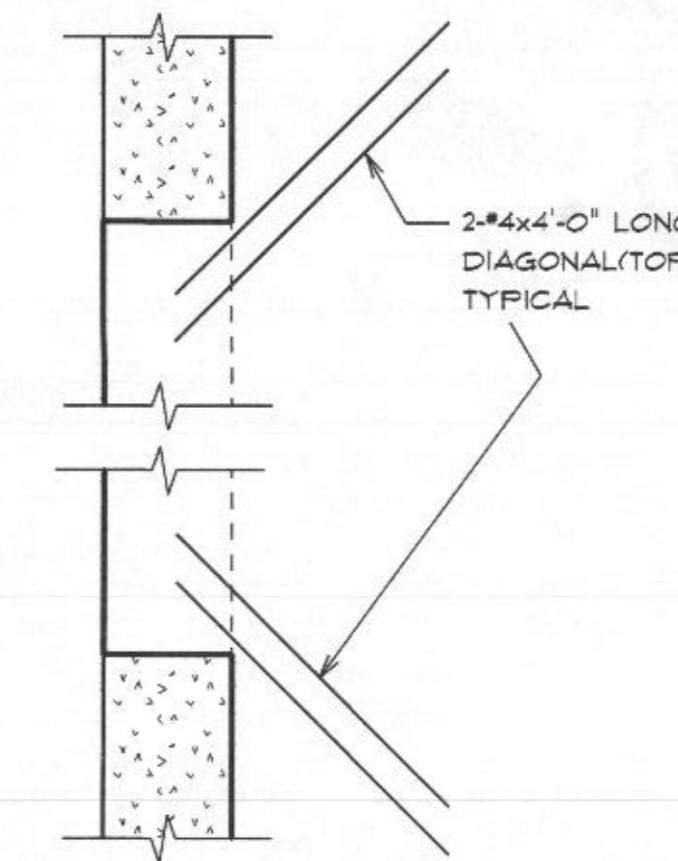
TYPICAL CONCRETE WALL CORNER REINFORCING

2 DETAIL
83.01 NOT TO SCALE



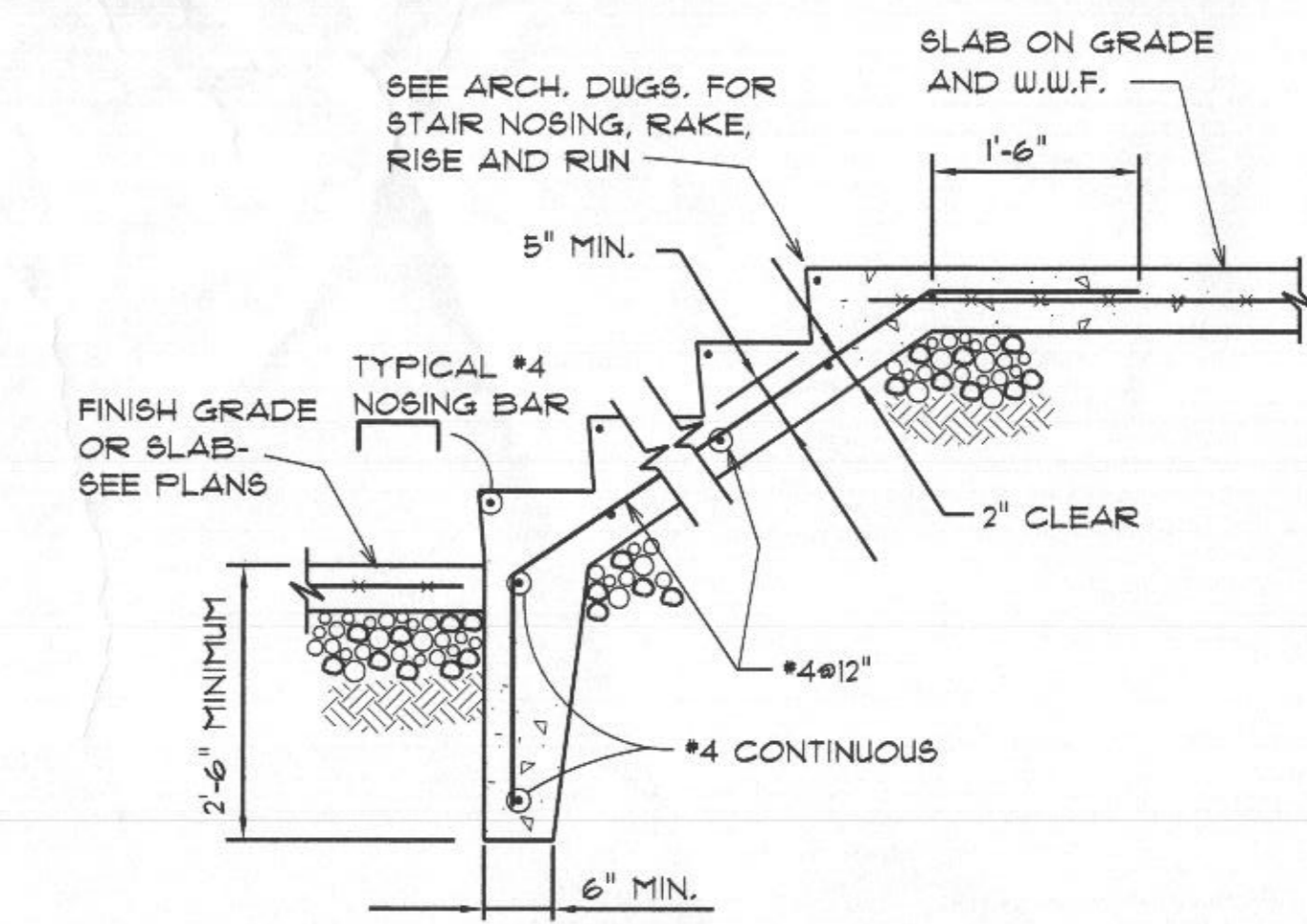
ADDITIONAL SLAB REINFORCING @ WALL CORNERS

3 DETAIL
83.01 NOT TO SCALE



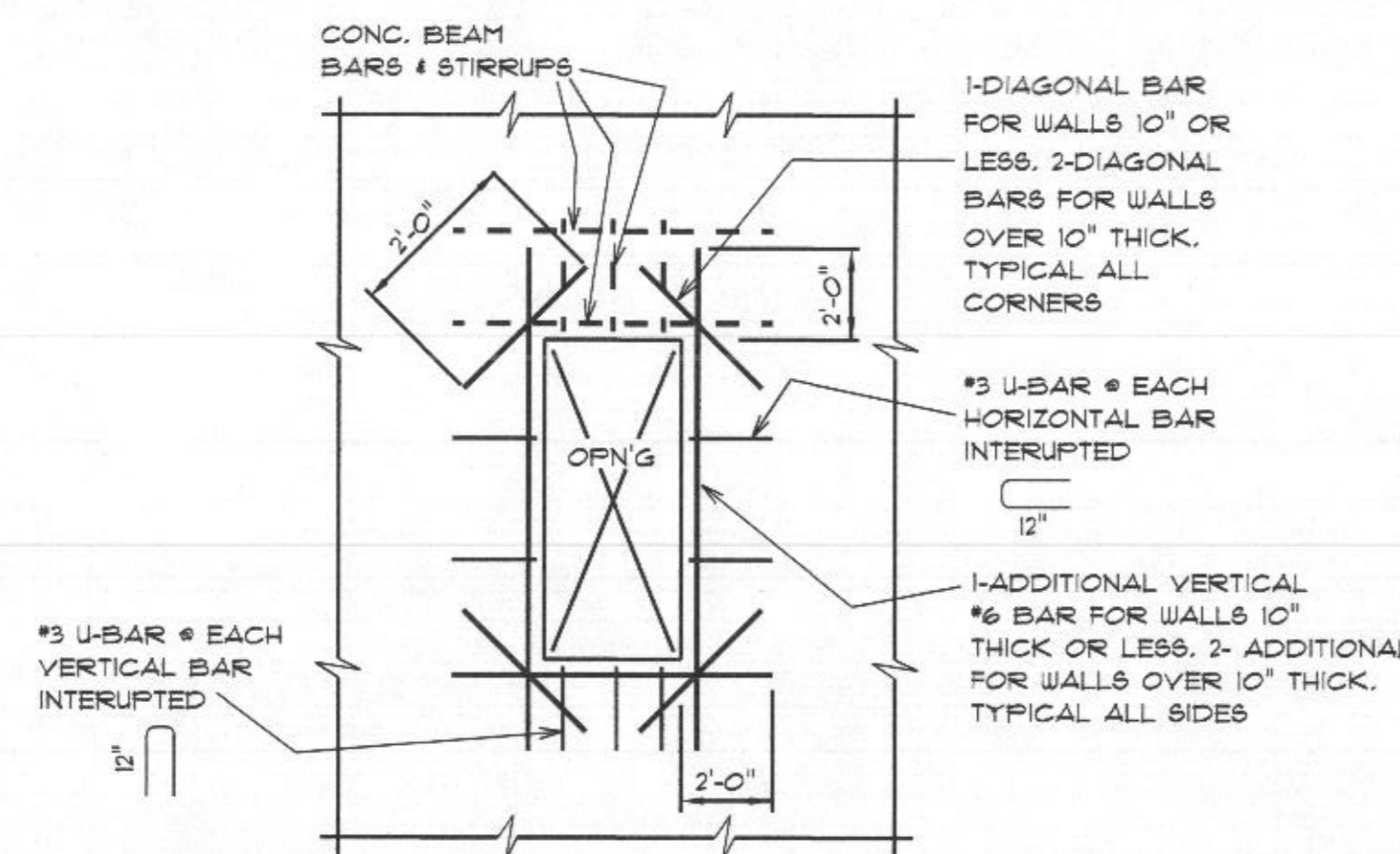
TYPICAL SLAB ON GRADE PLAN AT DOORWAY

4 DETAIL
83.01 NOT TO SCALE



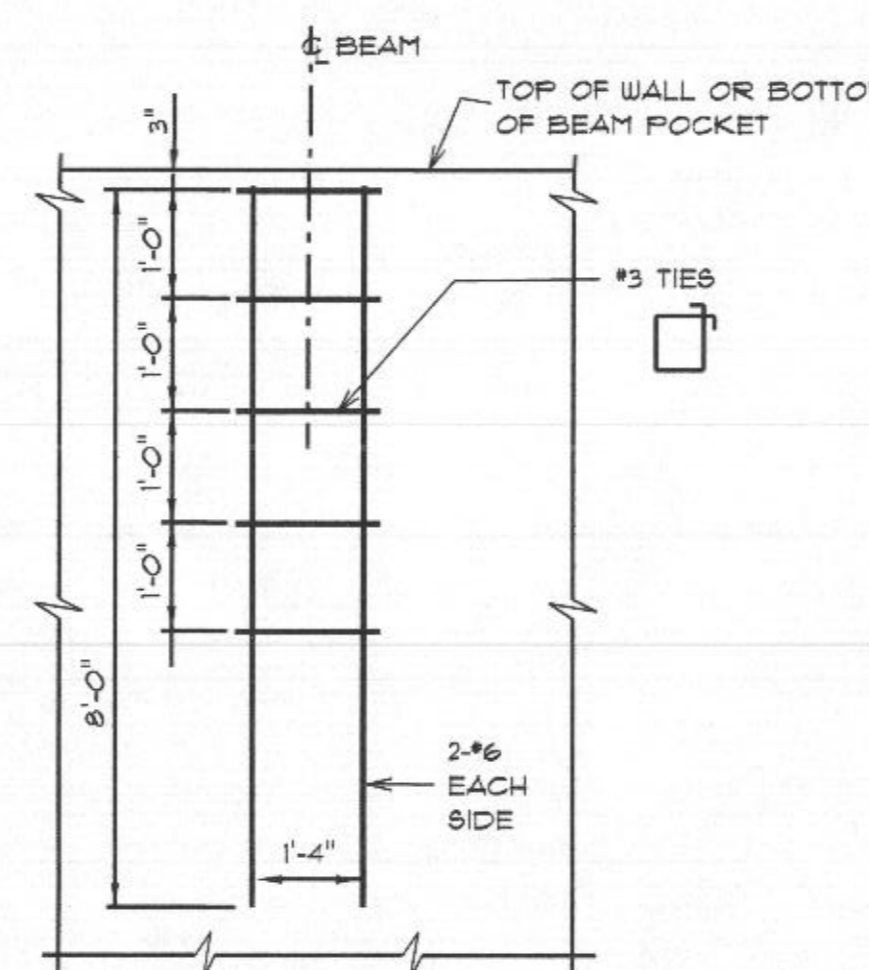
CONCRETE STAIR ON GRADE

5 DETAIL
83.01 NOT TO SCALE



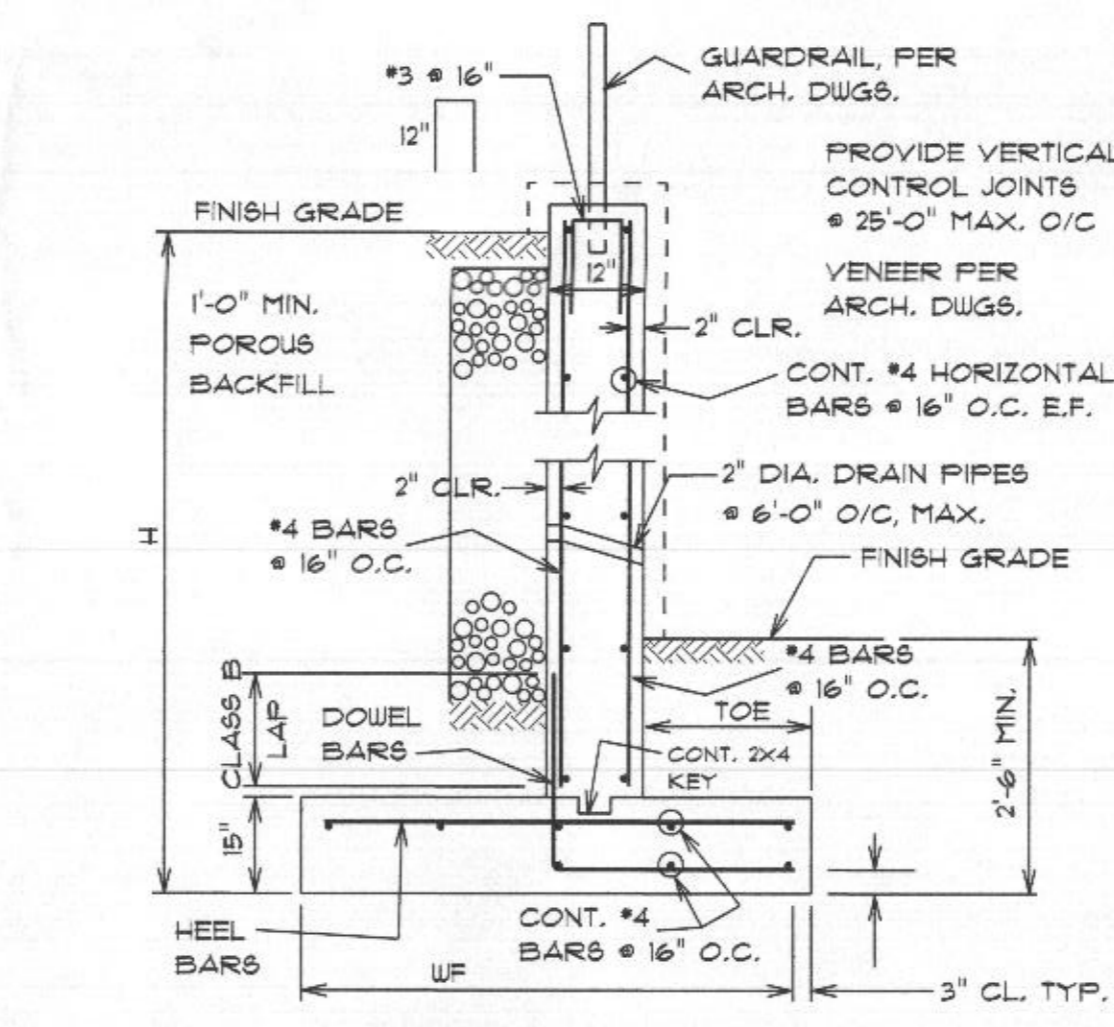
ADDITIONAL BARS AROUND OPENINGS IN CONCRETE WALL

7 DETAIL
83.01 NOT TO SCALE



ADDITIONAL REINFORCING IN CONCRETE WALL UNDER BEAM OR COLUMN

8 DETAIL
83.01 NOT TO SCALE

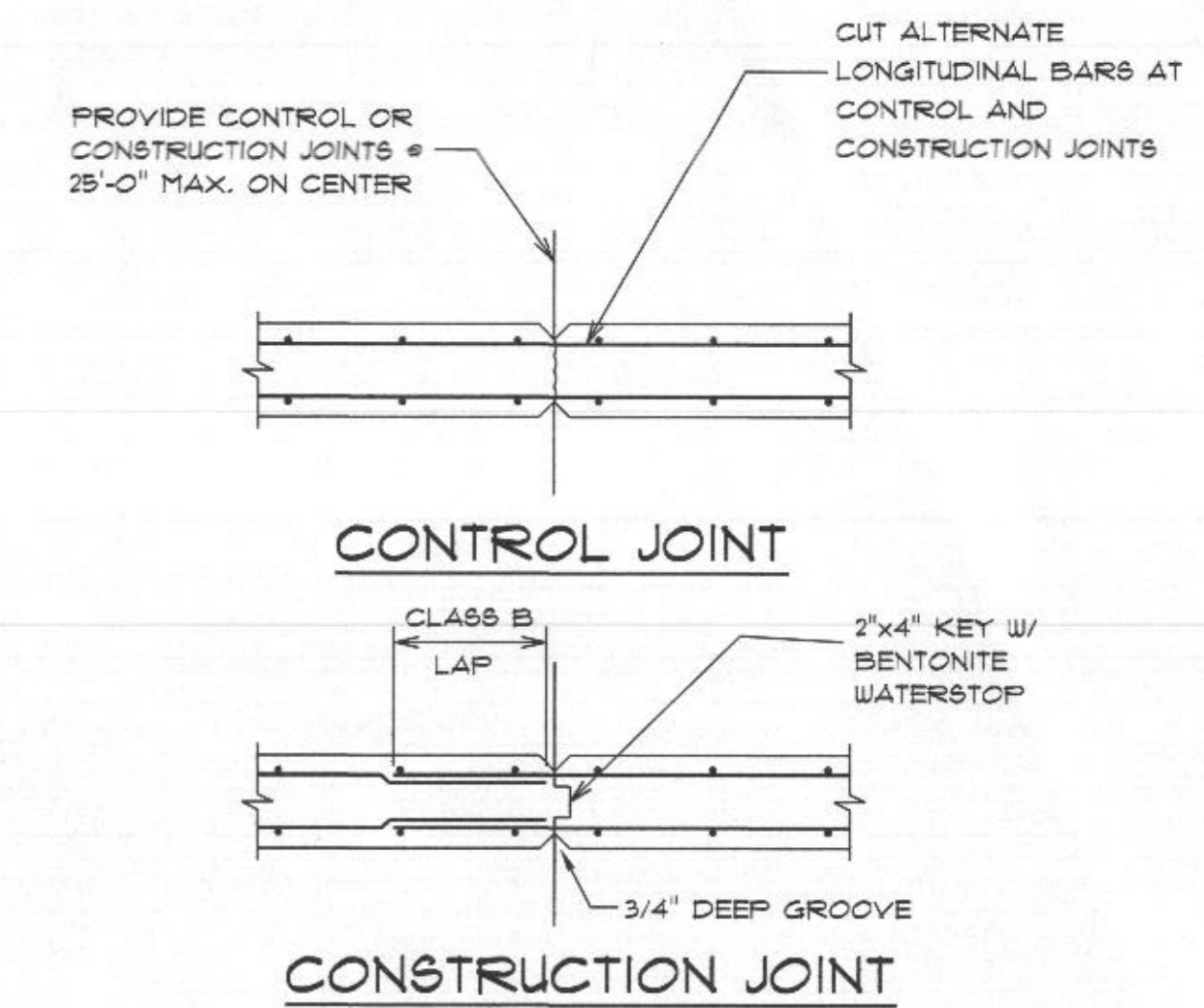


CANTILEVERED RETAINING WALL SCHEDULE				
H	WF	TOE	HEEL BARS	DOWEL BARS
3'-6" < H ≤ 5'-6"	3'-3"	9"	#4 # 16"	#5 # 16"
5'-6" < H ≤ 7'-6"	5'-3"	9"	#5 # 16"	#6 # 16"

2000 PSF ALLOWABLE SOIL PRESSURE

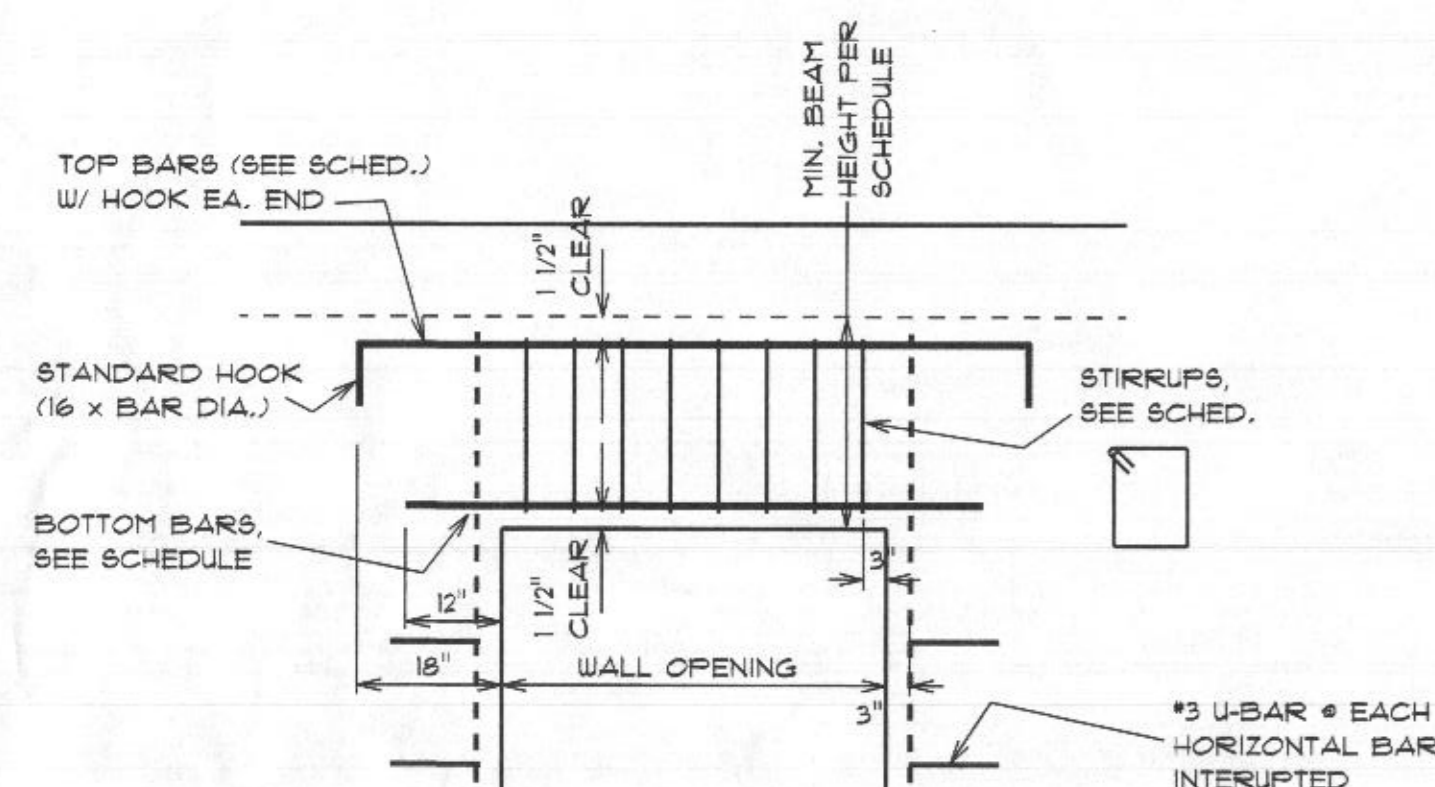
SITE CANTILEVERED RETAINING WALL

9 DETAIL
83.01 NOT TO SCALE



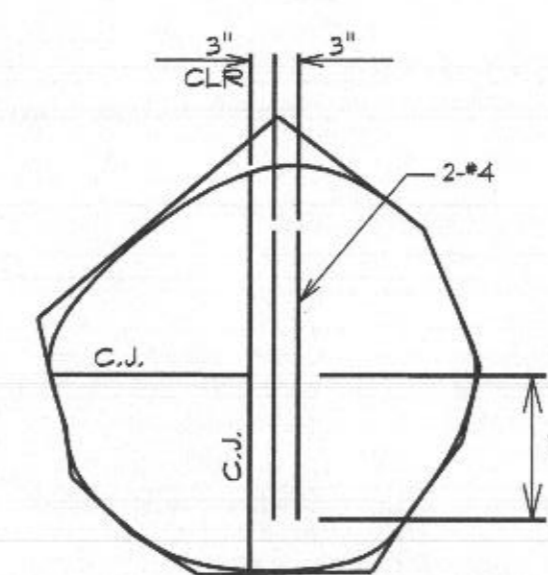
TYPICAL CONCRETE WALL JOINT

10 DETAIL
83.01 NOT TO SCALE



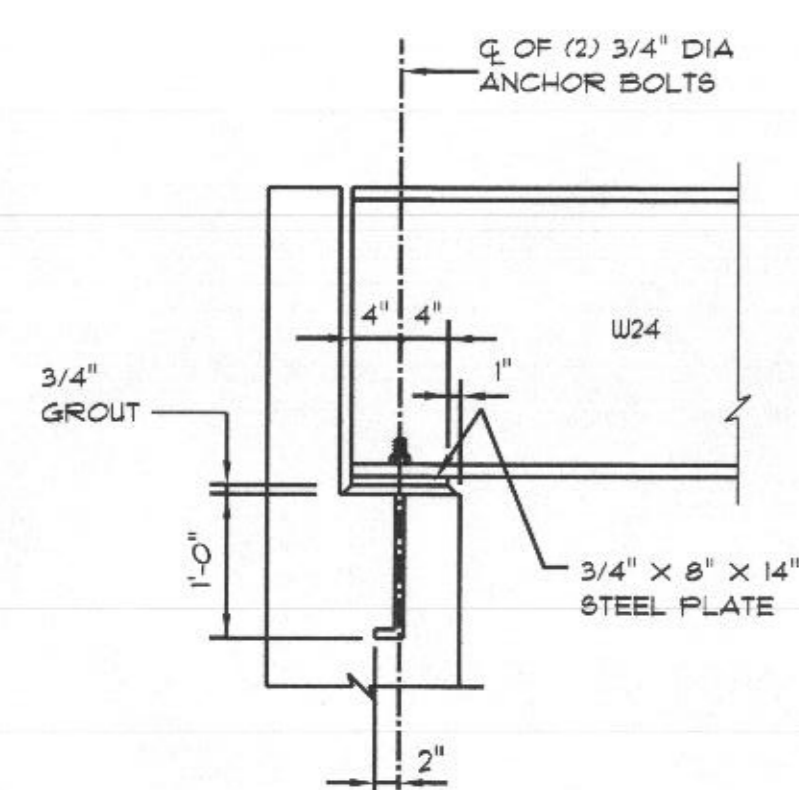
CONCRETE BEAM / HEADER DETAIL

10 DETAIL
83.01 NOT TO SCALE

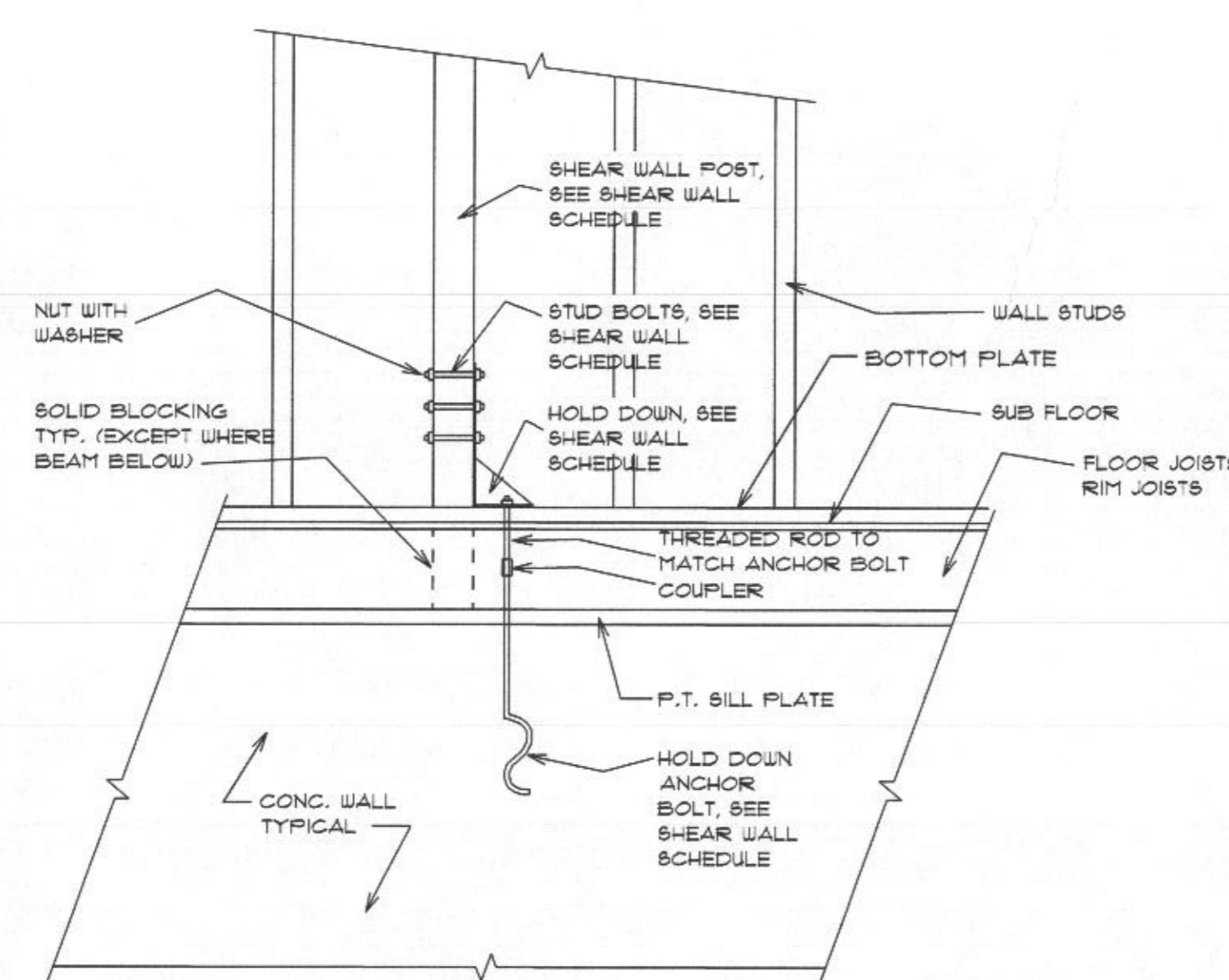


TYPICAL JOINT TERMINATION REINFORCEMENT

11 DETAIL
83.01 NOT TO SCALE

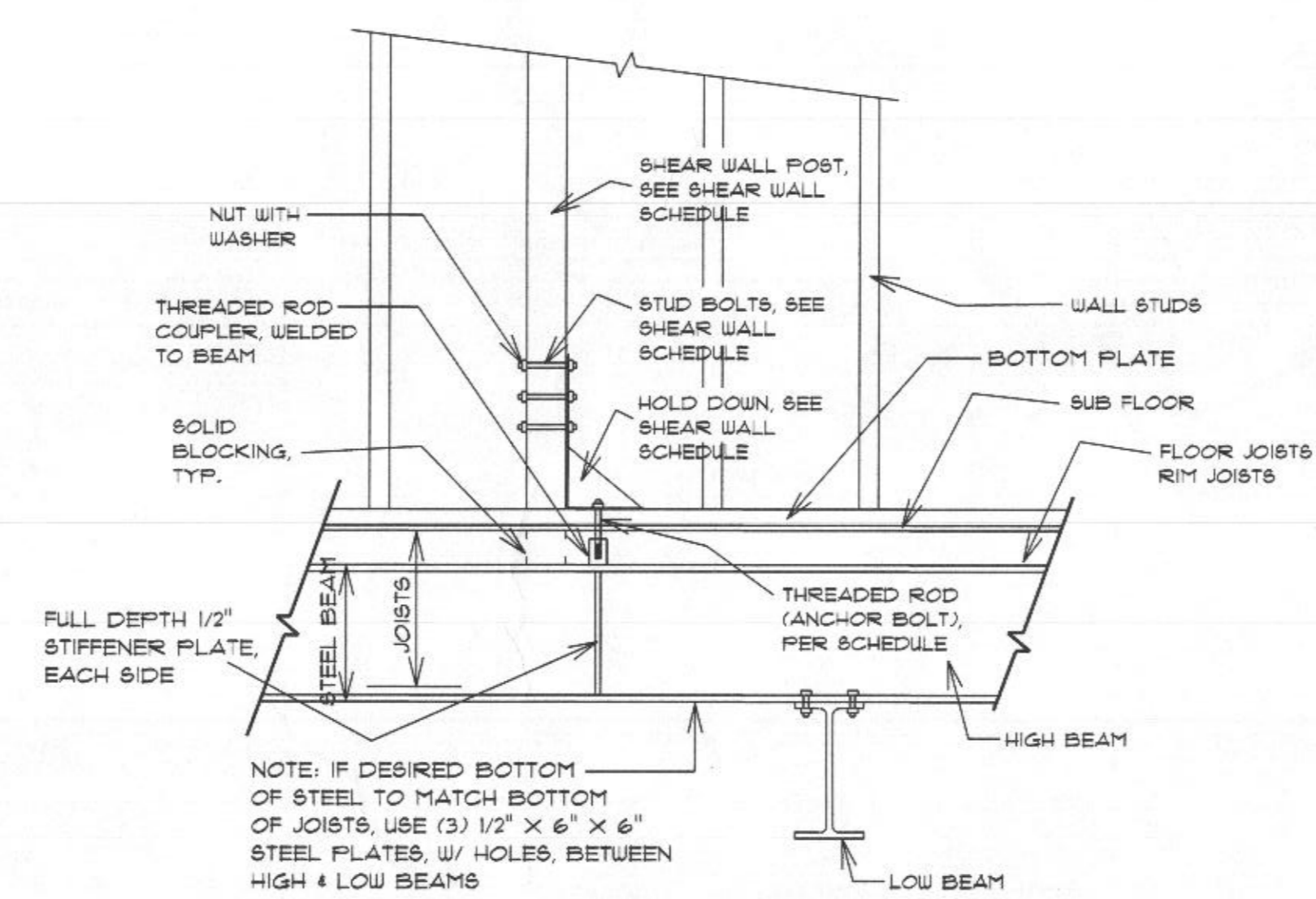


X DETAIL
83.01 NOT TO SCALE



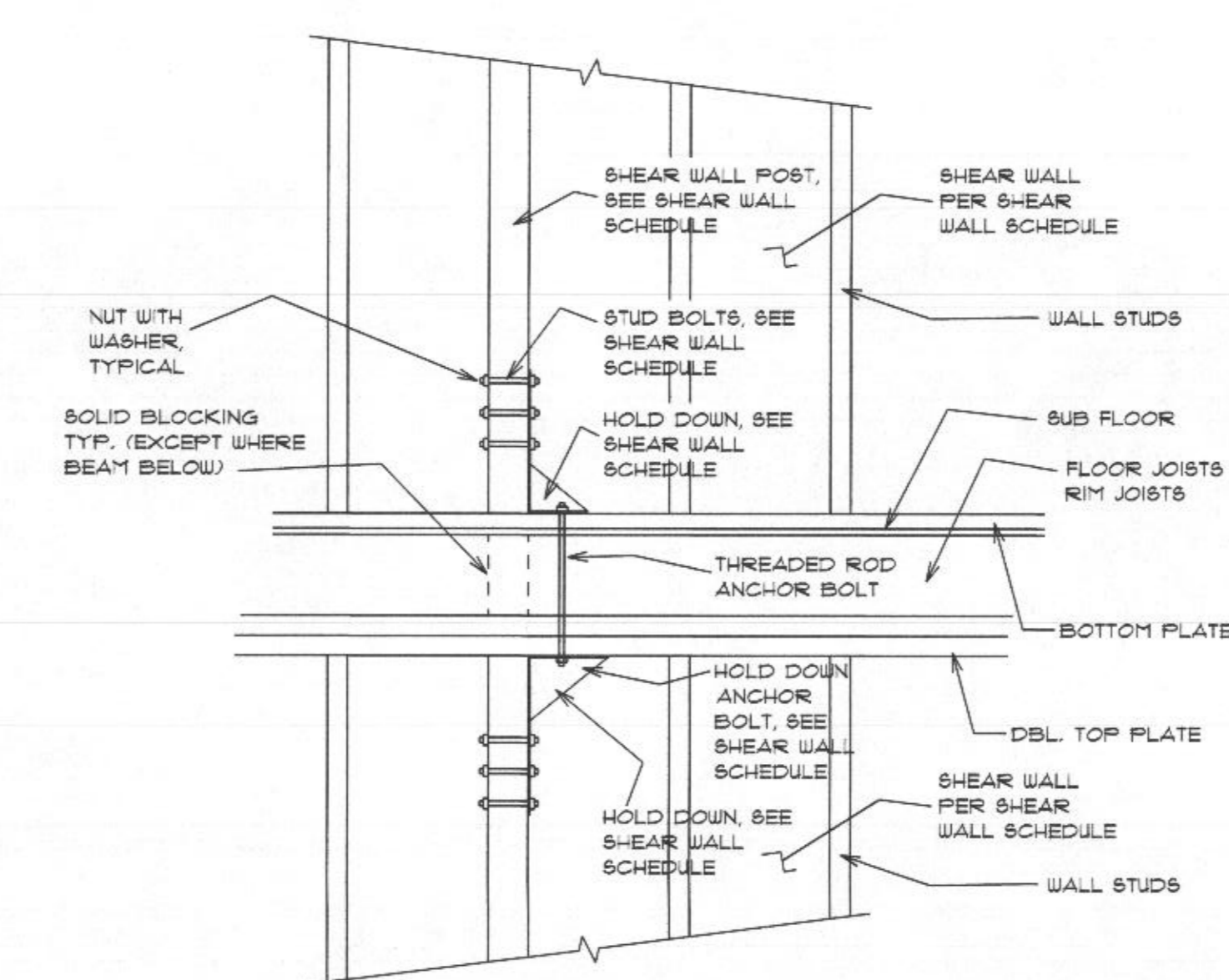
SHEAR WALL HOLD-DOWN @ FOUNDATION WALL

~ DETAIL
83.01 SCALE: 3/4" = 1'-0"



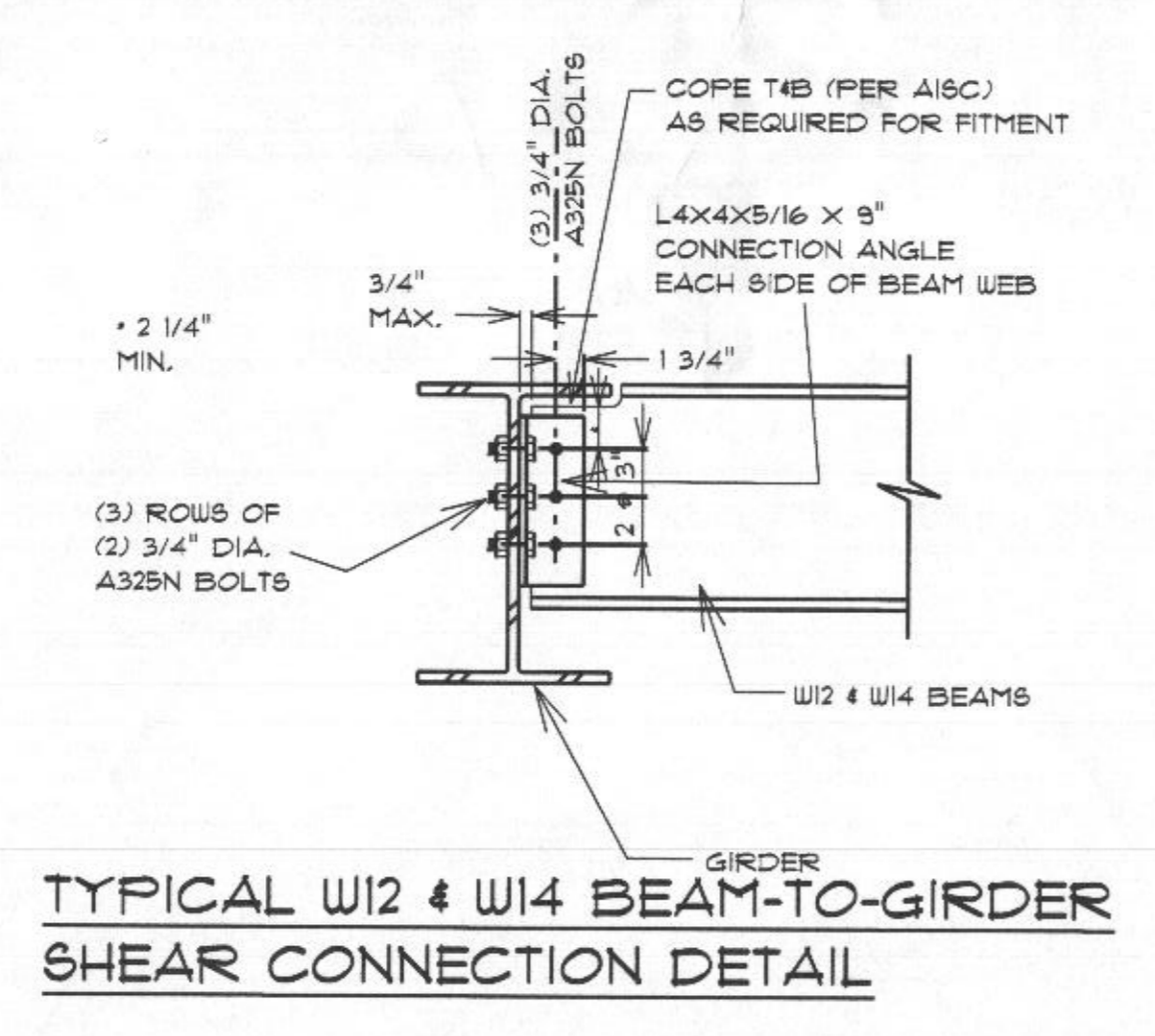
SHEAR WALL HOLD-DOWN @ STEEL BEAM (FRAMED FLOOR)

~ DETAIL
83.01 SCALE: 3/4" = 1'-0"



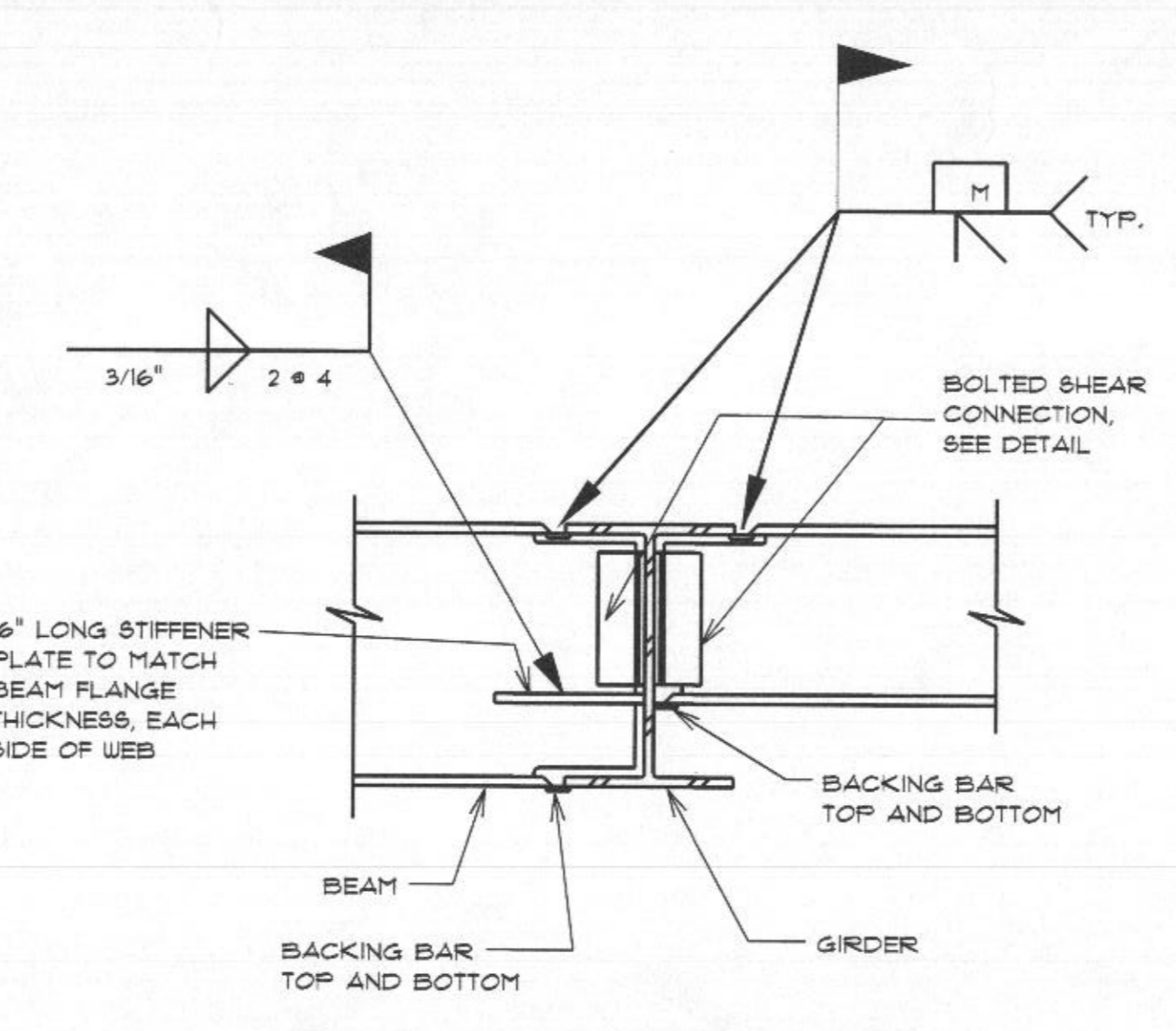
SHEAR WALL HOLD-DOWN THRU FLOOR

~ DETAIL
83.01 SCALE: 3/4" = 1'-0"



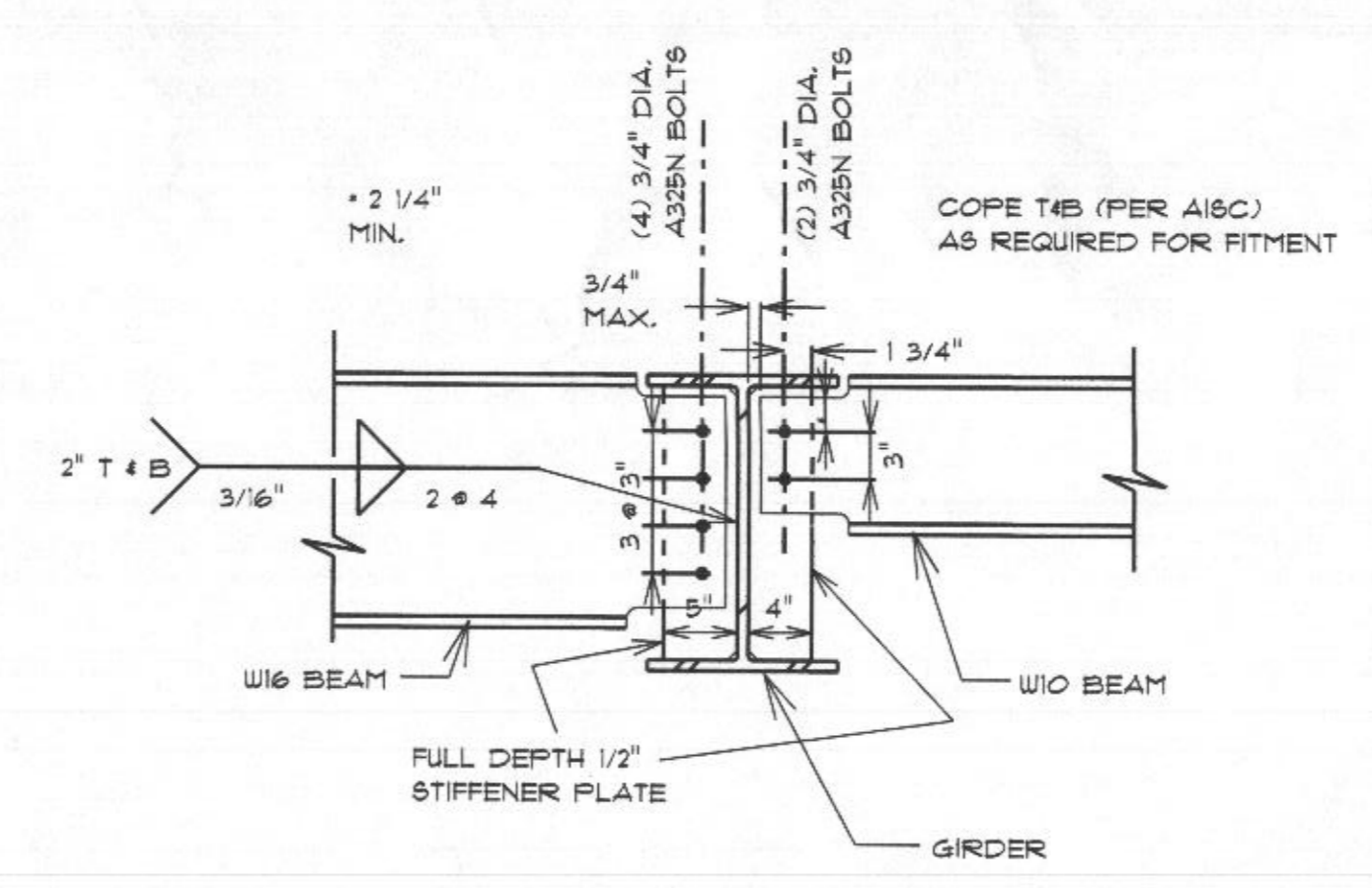
TYPICAL W12 & W14 BEAM-TO-GIRDER SHEAR CONNECTION DETAIL

DETAIL
83.01 NOT TO SCALE



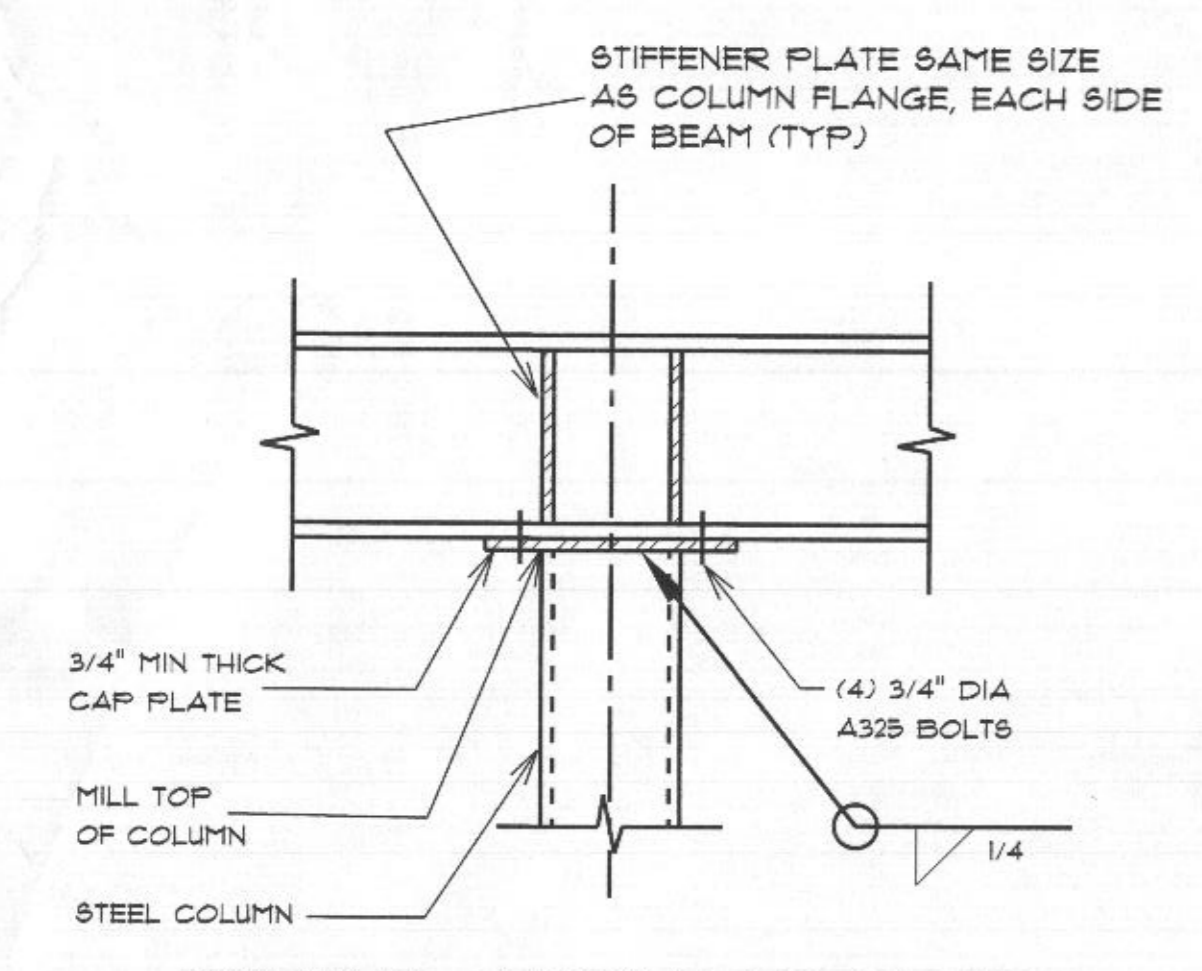
TYPICAL BEAM-TO-GIRDER MOMENT CONNECTION DETAIL

DETAIL
83.01 NOT TO SCALE



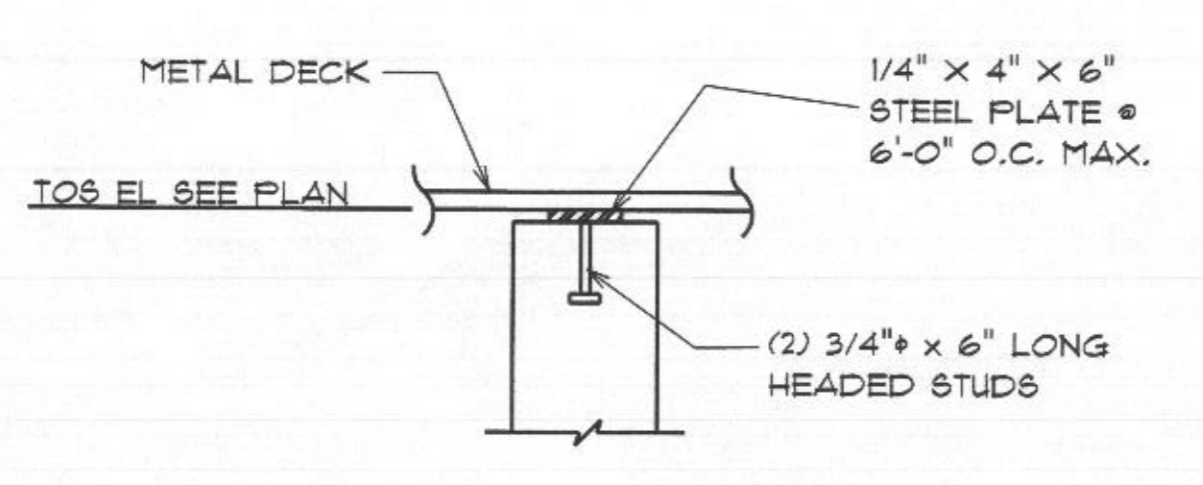
W16 & W10 CONNECTION TO W24 GIRDER

DETAIL
83.01 NOT TO SCALE



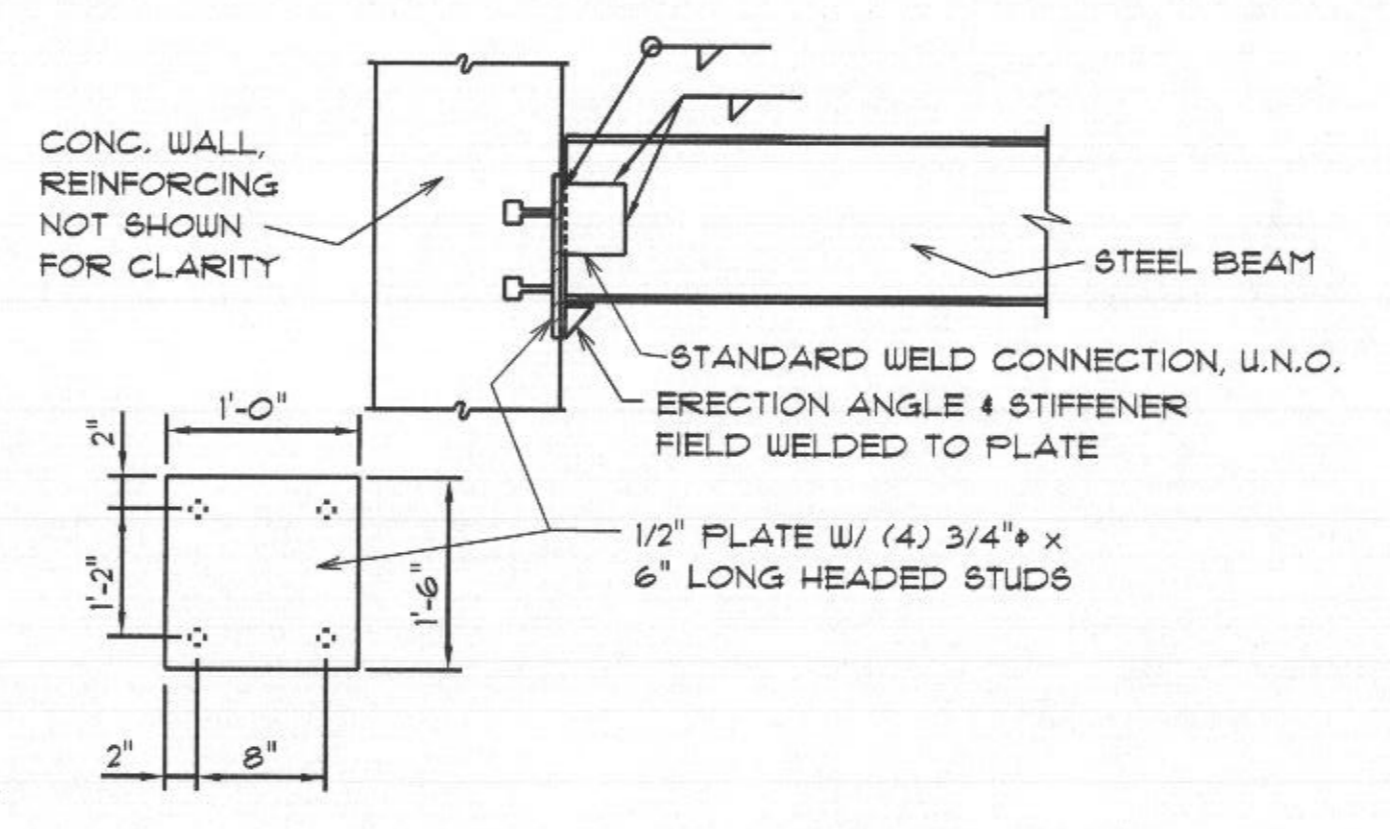
TYPICAL CANTILEVER BEAM - COLUMN CONNECTION

DETAIL
83.01 NOT TO SCALE



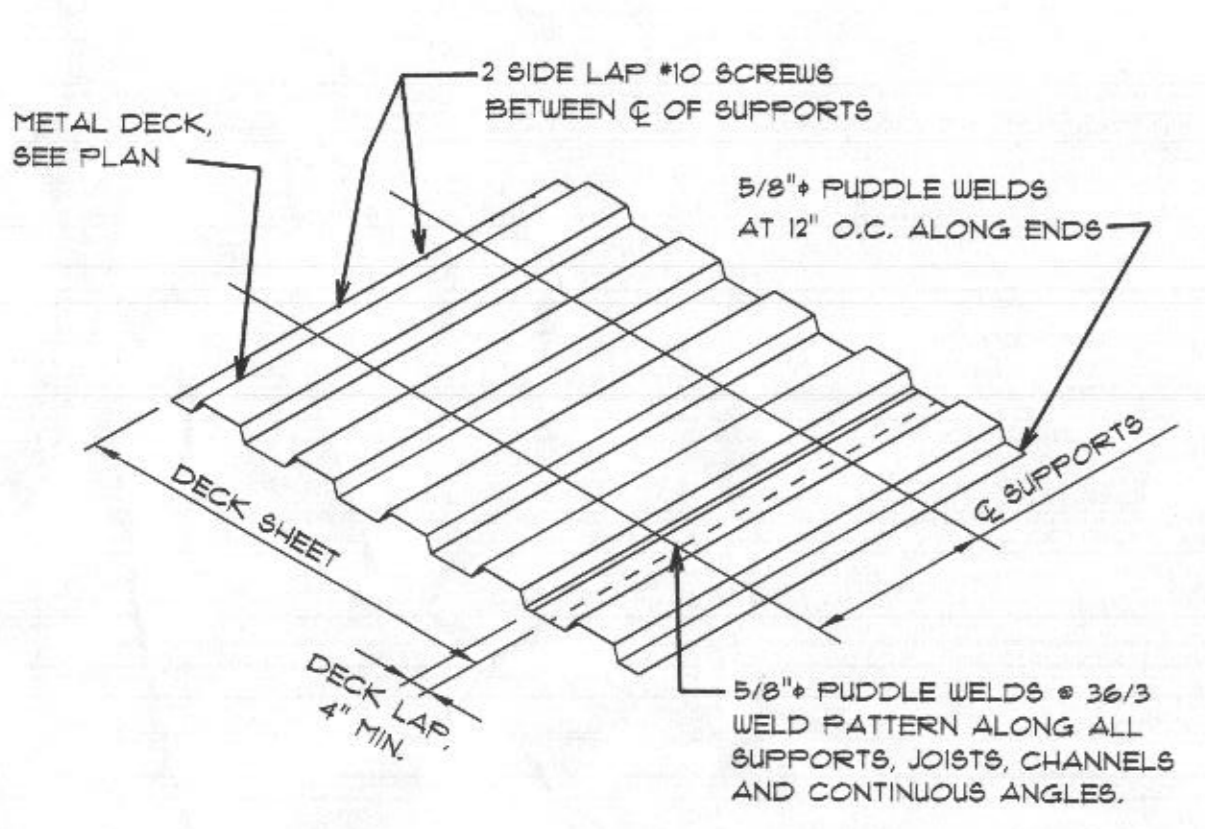
TYPICAL DECK BEARING DETAIL

DETAIL
83.01 NOT TO SCALE



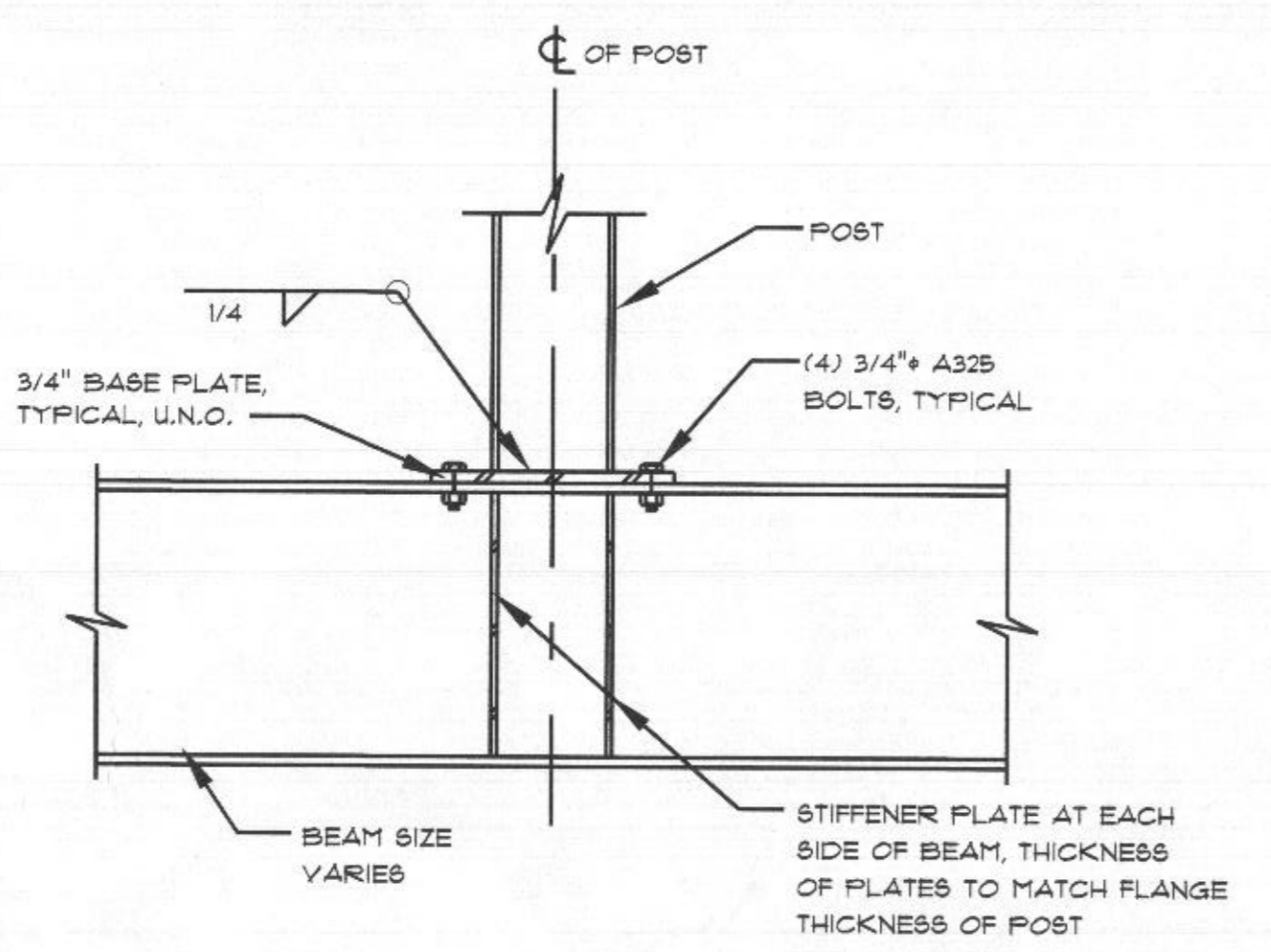
TYPICAL STEEL BEAM TO CONCRETE CONNECTION
(UNLESS OTHERWISE NOTED)

DETAIL
83.01 NOT TO SCALE



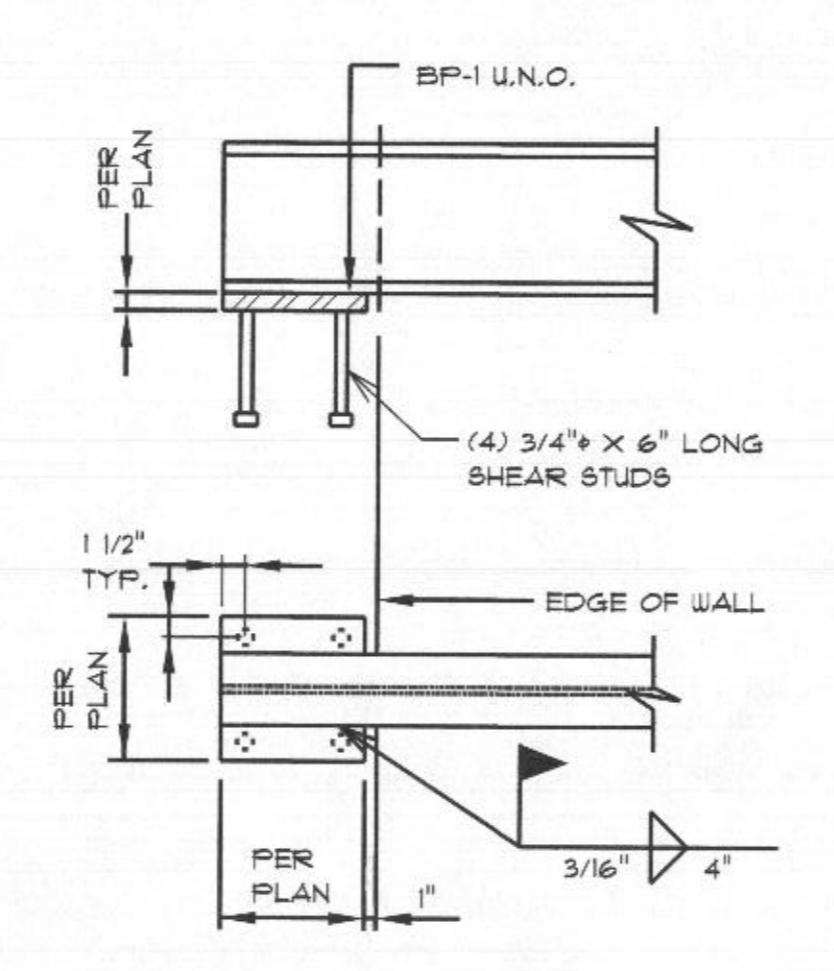
TYPICAL METAL DECK ATTACHMENT

DETAIL
83.01 NOT TO SCALE



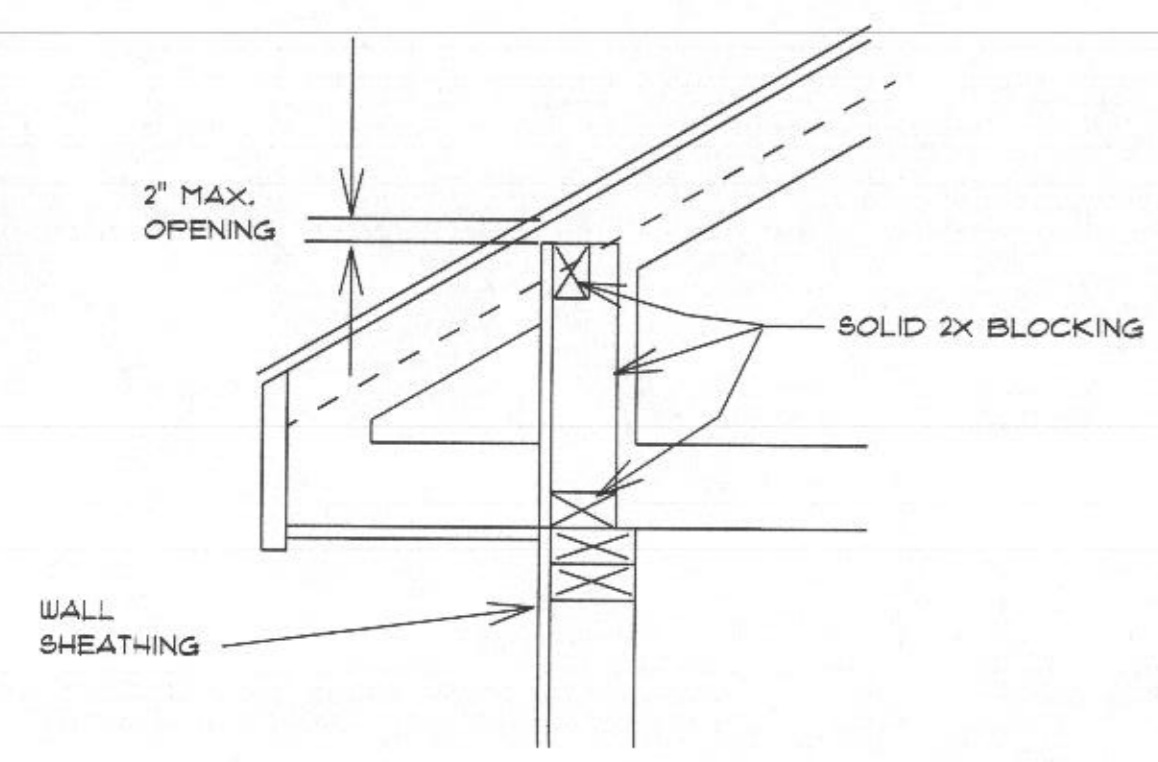
TYPICAL POST CONNECTION

DETAIL
83.01 NOT TO SCALE

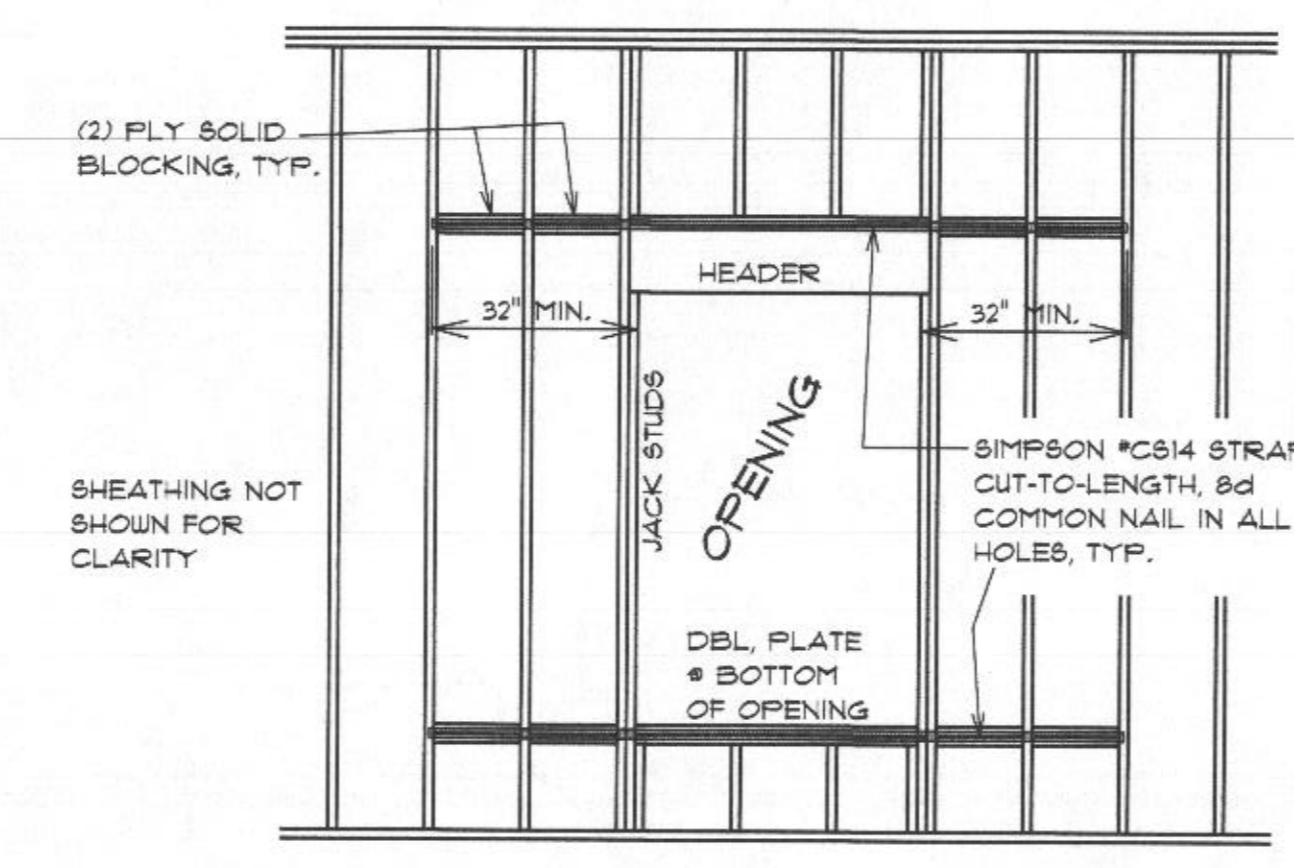


TYPICAL BEAM BEARING PLATE

DETAIL
83.01 NOT TO SCALE

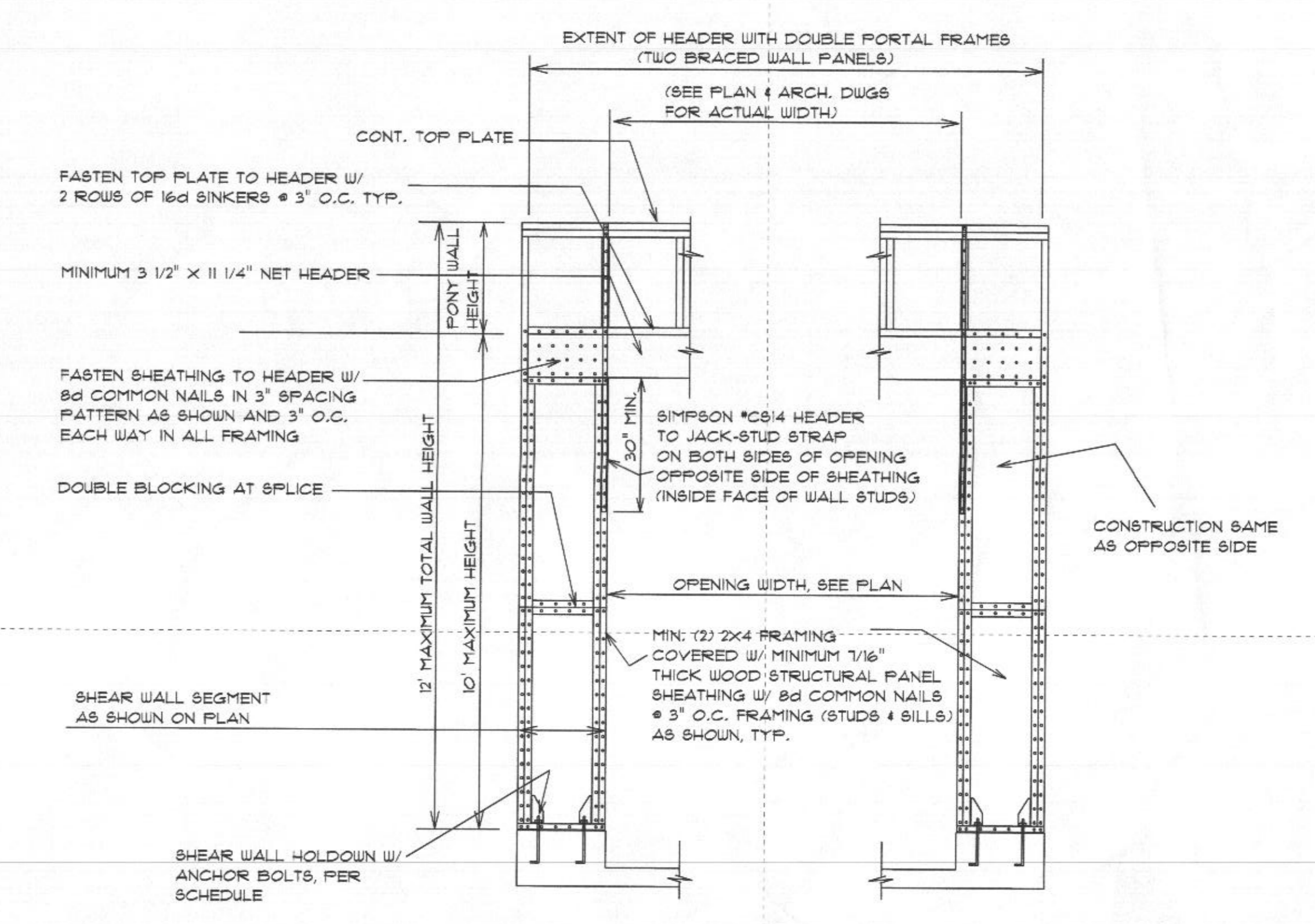


DETAIL
83.01 NOT TO SCALE



FORCE TRANSFER AROUND OPENING IN SHEAR WALL

DETAIL
83.01 NOT TO SCALE



PORTAL FRAME DETAIL
(EXTERIOR) ELEVATION

DETAIL
83.01 NOT TO SCALE